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Neil T. Bendle Paul W. Farris Phillip E. Pfeifer David J. Reibstein

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# **MARKETING METRICS**

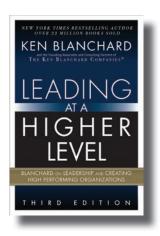
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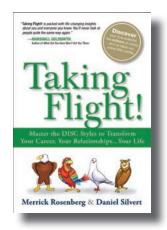
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# MARKETING METRICS

**FOURTH EDITION** 

# THE MANAGER'S GUIDE TO MEASURING MARKETING PERFORMANCE

Neil T. Bendle
Paul W. Farris
Phillip E. Pfeifer
David J. Reibstein



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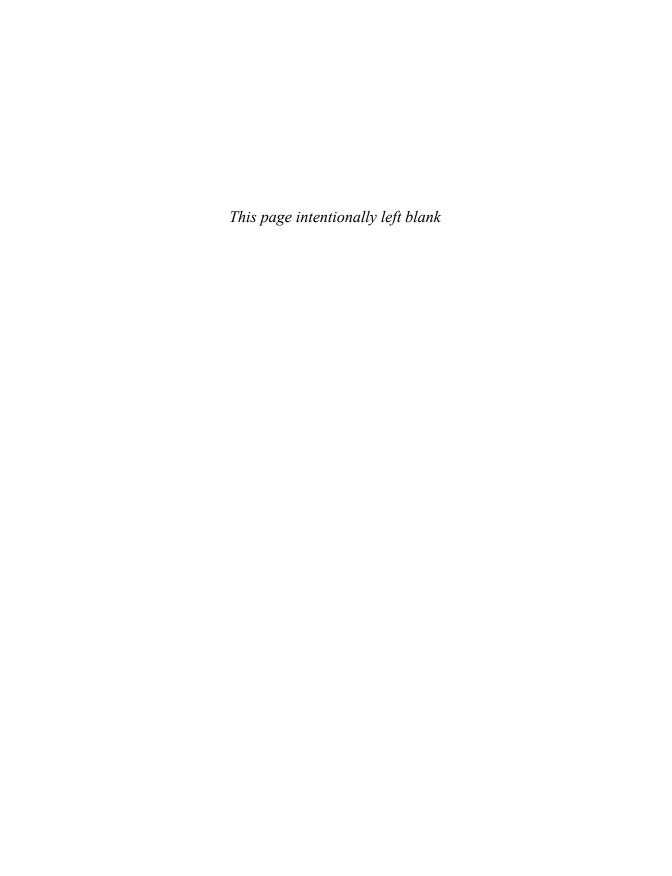
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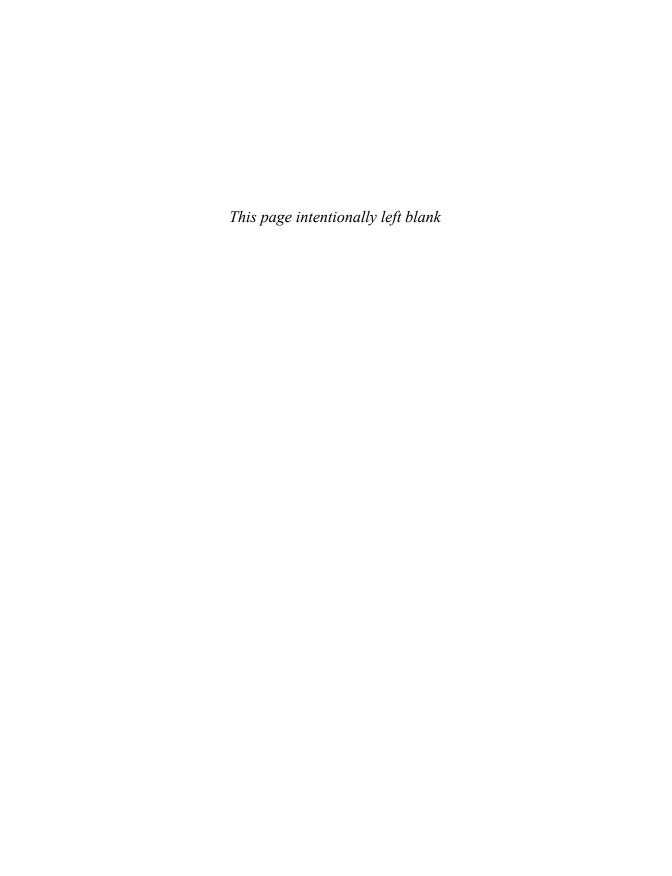
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We dedicate this book to our students, colleagues, and consulting clients, who convinced us that a book like this would fill a real need.



# **CONTENTS-AT-A-GLANCE**

Acknowledgmentsxiii
About the Authorsxv
Forewordxvii
Foreword to the Fourth Edition
Chapter 1: Introduction
Chapter 2: Share of Hearts, Minds, and Markets
Chapter 3: Margins and Profits
Chapter 4: Product and Portfolio Management
Chapter 5: Customer Profitability
Chapter 6: Sales Force Management
Chapter 7: Channel Management
Chapter 8: Pricing Strategy
Chapter 9: Promotion
Chapter 10: Advertising and Sponsorship Metrics
Chapter 11: Online, Email, and Mobile Metrics
Chapter 12: Marketing and Finance
Chapter 13: The Marketing Metrics X-Ray and Testing
Chapter 14: System of Metrics
Bibliography
Endnotes
Index447



# **CONTENTS**

Acknowledg	mentsxiii
About the A	uthorsxv
Foreword	xvii
Foreword to	the Fourth Editionxix
Chapter 1:	Introduction
1.1	What Is a Metric?
1.2	Why Do You Need Metrics?
1.3	Marketing Metrics: Opportunities, Performance, and Accountability
1.4	Choosing the Right Numbers
1.5	What Are We Measuring?
1.6	Value of Information
1.7	Mastering Metrics
1.8	Where Are the "Top Ten" Metrics?
1.9	What Is New in the Fourth Edition?
1.10	New Developments in the World of Marketing Metrics
Chapter 2:	Share of Hearts, Minds, and Markets19
Intro	oduction
2.1	Market Share
2.2	Relative Market Share and Market Concentration
2.3	Brand Development Index and Category Development Index
2.4	Penetration
2.5	Share of Requirements
2.6	Usage Index
2.7	Awareness, Attitudes, and Usage (AAU): Metrics of the Hierarchy of Effects
2.8	Customer Satisfaction and Willingness to Recommend
2.8	Net Promoter
2.9	
2.10	
2.11	rediosciciee measures

Chapter 3:	Margins and Profits	67
Intr	oduction	67
3.1	Margins	71
3.2	Prices and Channel Margins	77
3.3	Average Price per Unit and Price per Statistical Unit	87
3.4	Variable Costs and Fixed Costs	
3.5	Marketing Spending—Total, Fixed, and Variable	99
3.6	Break-Even Analysis and Contribution Analysis	104
3.7	Profit-Based Sales Targets.	108
Chapter 4:	Product and Portfolio Management	113
Intr	oduction	113
4.1	Trial, Repeat, Penetration, and Volume Projections	116
4.2	Growth: Percentage and CAGR	129
4.3	Cannibalization Rates and Fair Share Draw	134
4.4	Brand Equity Metrics	140
4.5	Conjoint Utilities and Consumer Preference	149
4.6	Segmentation Using Conjoint Utilities	154
4.7	Conjoint Utilities and Volume Projection	157
Chapter 5:	Customer Profitability	159
Intr	oduction	159
5.1	Customers, Recency, and Retention	162
5.2	Customer Profit	167
5.3	Customer Lifetime Value	172
5.4	Prospect Lifetime Value Versus Customer Value	178
5.5	Acquisition Versus Retention Cost	182
Chapter 6:	Sales Force Management	185
Intr	oduction	185
6.1	Sales Force Coverage: Territories	187
6.2	Sales Force Objectives: Setting Goals	190
6.3	Sales Force Effectiveness: Measuring Effort, Potential, and Results	194
6.4	Sales Force Compensation: Salary/Reward Mix	198
6.5	Sales Force Tracking: Pipeline Analysis	201
Chapter 7:	Channel Management	207
Intr	oduction	207
7.1	Numeric, ACV and PCV Distribution, Facings/Share of Shelf	210
7.2	Supply Chain Metrics	217
7.3	SKU Profitability: Markdowns, GMROII, and DPP	223

	7.4	Online Distribution Metrics	228
	7.5	Combining Search and Distribution	230
	7.6	Understanding Channel Dependencies	231
Chapt	er 8: 1	Pricing Strategy	235
	Intro	oduction	235
	8.1	Price Premium	238
	8.2	Reservation Price and Percent Good Value	242
	8.3	Price Elasticity of Demand	248
	8.4	Optimal Prices and Linear and Constant Demand Functions	255
	8.5	Own, Cross, and Residual Price Elasticity	268
Chapt	er 9: 1	Promotion	279
	Intro	oduction	279
	9.1	Baseline Sales, Incremental Sales, and Promotional Lift	282
	9.2	Redemption Rates, Costs for Coupons and Rebates, and Percentage	
		Sales with Coupon	290
	9.3	Promotions and Pass-Through.	293
	9.4	Price Waterfall	296
Chapt	er 10:	Advertising and Sponsorship Metrics	303
	Intro	oduction	303
	10.1	Advertising: Impressions, Exposures, Opportunities-to-See (OTS),	
		Gross Rating Points (GRPs), and Target Rating Points (TRPs)	307
	10.2	, , , , , , , , , , , , , , , , , , , ,	
	10.3		
	10.4		
	10.5		
	10.6	Share of Voice	325
	10.7	Advertising Elasticity of Demand	327
	10.8	Return on Advertising Spend (ROAS)	332
	10.9	Equivalent Media Value from Sponsorship	334
	10.1	0 Sponsorship ROI	336
Chapt	er 11:	Online, Email, and Mobile Metrics	341
	Intro	oduction	341
	11.1	Impressions and Pageviews	345
	11.2		
	11.3	ž - v	
	11.4		
	11.5		

11.6	Bounce Rate (website)	364
11.7	Social Media Metrics: Friends/Followers/Supporters/Likes	367
11.8	Downloads	370
11.9	Mobile Metrics	372
11.1	0 Email Metrics	374
Chapter 12:	Marketing and Finance	377
Intro	oduction	377
12.1	Net Profit and Return on Sales	380
12.2	Return on Investment	382
12.3	Economic Profit—EVA	383
12.4	Evaluating Multi-period Investments	386
12.5	Marketing Return on Investment	390
12.6	Financial Market Measures	397
12.7	Combined Market and Accounting Measures	399
Chapter 13:	The Marketing Metrics X-Ray and Testing	403
13.1	The Marketing Metrics X-Ray	403
13.2	The Value of Information	412
13.3	Testing	414
Chapter 14:	System of Metrics	421
14.1	Modeling Firm Performance	421
14.2	Three Reasons for Using Systems of Identities in Marketing	424
14.3		
	Marketing Decisions and Objectives	429
14.4	Related Metrics and Concepts	433
Bibliography	y	435
	• • • • • • • • • • • • • • • • • • • •	
T 1		4.45

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## **ACKNOWLEDGMENTS**

We hope this book will be a step, however modest, toward clarifying the language, construction, and meaning of many of our important marketing metrics. If we have succeeded in making such a step, we owe thanks to a number of people.

Jerry Wind reviewed our initial concept and encouraged us to set our sights higher. Rob Northrop, Simon Bendle, and Vince Choe read early drafts and gave valuable feedback on the most important chapters. Eric Larson, Jordan Mitchell, Tom Disantis, and Francisco Simon helped develop material for important sections and provided their research skills. Gerry Allan and Alan Rimm-Kauffman allowed us to cite liberally from their materials on customers and Internet marketing. We thank Valerie Redd and Kelly Brandow for their help in designing, testing, and administering the survey of the metrics that senior marketing managers use to monitor and manage their businesses.

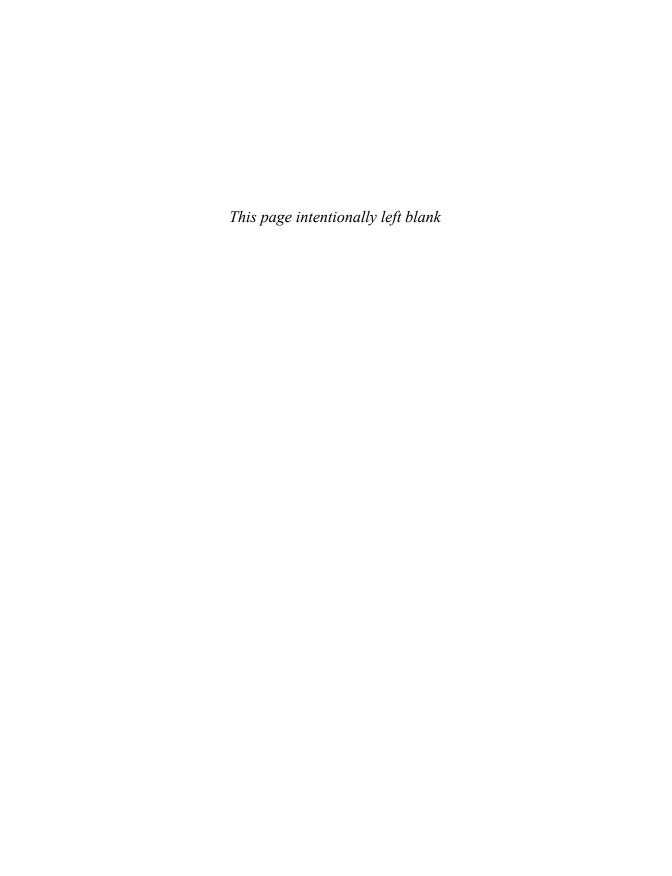
Marc Goldstein and Lynn Selhat combined business savvy with deft editing touches that improved the readability of almost every chapter. Kim Spenceley, Chris Zahn, Paula Lowell, Lori Lyons, and the production team also made significant improvements in moving from a raw manuscript to the book in your hands.

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Stanford, INSEAD, and ISB (in India). Dave was the Chairman of the American Marketing Association. He was the host of a radio show, "Measured Thoughts with Dave Reibstein," on SiriusXM Radio. He has more than 50 articles published in top journals and has consulted and/or presented in more than 30 countries. He has presented his research at the World Economic Forum in Davos, Switzerland.

## **FOREWORD**

Despite its importance, marketing is one of the least understood, least measurable functions at many companies. With sales force costs, it accounts for 10% or more of operating budgets at a wide range of public firms. Its effectiveness is fundamental to stock market valuations, which often rest upon aggressive assumptions for customer acquisition and organic growth. Nevertheless, many corporate boards lack the understanding to evaluate marketing strategies and expenditures. Most directors—and a rising percentage of Fortune 500 CEOs—lack deep experience in this field.

Marketing executives, for their part, often fail to develop the quantitative, analytical skills needed to manage productivity. Right-brain thinkers may devise creative campaigns to drive sales but show little interest in the wider financial impact of their work. Frequently, they resist being held accountable even for top-line performance, asserting that factors beyond their control—including competition—make it difficult to monitor the results of their programs.

In this context, marketing decisions are often made without the information, expertise, and measurable feedback needed. As Procter & Gamble's Chief Marketing Officer has said, "Marketing is a \$450 billion industry, and we are making decisions with less data and discipline than we apply to \$100,000 decisions in other aspects of our business." This is a troubling state of affairs. But it can change.

In an article in *The Wall Street Journal*, I called on marketing managers to take concrete steps to correct it. I urged them to gather and analyze basic market data, measure the core factors that drive their business models, analyze the profitability of individual customer accounts, and optimize resource allocation among increasingly fragmented media. These are analytical, data-intensive, left-brain practices. Going forward, I believe they'll be crucial to the success of marketing executives and their employers. As I concluded in the *Journal*:

Today's boards want chief marketing officers who can speak the language of productivity and return on investment and are willing to be held accountable. In recent years, manufacturing, procurement and logistics have all tightened their belts in the cause of improved productivity. As a result, marketing expenditures account for a larger percentage of many corporate cost structures than ever before. Today's boards don't need chief marketing officers who have creative flair but no financial discipline. They need ambidextrous marketers who offer both.

In *Marketing Metrics*, Bendle, Farris, Pfeifer, and Reibstein have given us a valuable means toward this end. In a single volume, and with impressive clarity, they have outlined the sources, strengths, and weaknesses of a broad array of marketing metrics. They have explained how to harness those data for insight. Most importantly, they have explained how to act on this insight—how to apply it not only in planning campaigns but also in measuring their impact, correcting their courses, and optimizing their results. In essence, *Marketing Metrics* is a key reference for managers who aim to become skilled in both right- and left-brain marketing. I highly recommend it for all ambidextrous marketers.

#### John A. Quelch

Leonard M. Miller University Professor and Vice Provost, University of Miami; and Dean, Miami Herbert Business School

# FOREWORD TO THE FOURTH EDITION

At Google, we had a saying we used quite frequently: "Data beats opinion." This mantra inspired us to constantly think about how we could increase the ratio of fact to speculation. What do we *actually* know versus what do we only *think* we know? The best approach we found was to determine our key performance indicators and then measure how we were doing against them on a regular basis. This allowed us to optimize and expand those programs that were working, while pulling back on those that were not.

In today's hyper-competitive business landscape, most marketers are compelled to take a similar approach. No longer can marketers rely on conventional wisdom, rules of thumb, or intuition that may have been sufficient in the past.

The challenge, however, for all marketers is knowing *what* to measure and exactly *how* to measure it.

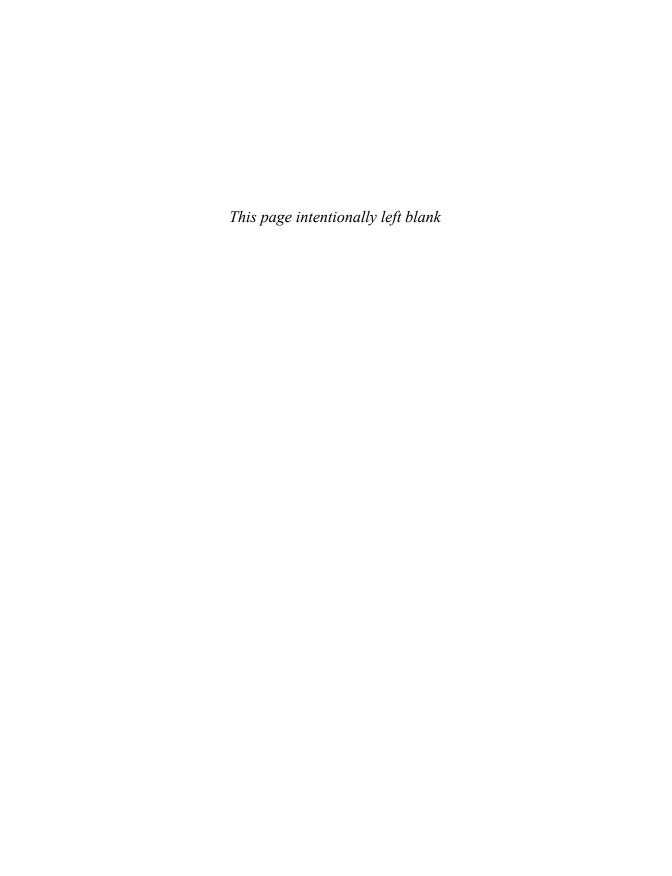
That's where *Marketing Metrics* comes in. In its first three editions, I've found it to be the most comprehensive and authoritative guide to defining, constructing, and using the metrics every marketer needs today. It's a book I keep handy on my shelf and refer to frequently.

As marketing continues to rapidly evolve, *Marketing Metrics* continues to stay at the cutting edge. This fourth edition updates and adds more detail on a number of the key metrics, including brand metrics and ROI. Given the increasing importance of online and social metrics, this new edition now dedicates a chapter to them that is separate from traditional advertising metrics. Herein you will also find a section about the metrics for the emerging area of neuro-marketing.

In our experience at Google, marketers who move with speed, make their messages highly relevant, and use data (it beats opinion!) are best positioned for success with today's buyers and modern media vehicles. I therefore heartily recommend *Marketing Metrics* as the foundation of the data portion of this three-pronged recipe for marketing success!

#### Jim Lecinski

Clinical Associate Professor of Marketing, Northwestern University, and former Vice-President of Customer Solutions at Google



## INTRODUCTION

Data-based marketing swept through the business world and was followed by the era of big data. Measurable performance and accountability have become the keys to marketing success. However, even now, few managers appreciate the range of metrics by which they can evaluate marketing strategies and dynamics. Fewer still understand the pros, cons, and nuances of each.

In the early years of the millennium, we recognized that marketers, general managers, and business students needed a comprehensive, practical reference on the metrics used to judge marketing programs and quantify their results. This book was the result and seeks to provide that reference. This is now the fourth edition of the book, and we continue to wish our readers great success using this book to improve their understanding of marketing.

#### 1.1 What Is a Metric?

A metric is a measuring system that quantifies a trend, dynamic, or characteristic.<sup>1</sup> In virtually all disciplines, practitioners use metrics to explain phenomena, diagnose causes, share findings, and project the results of future events. Throughout the worlds of science, business, and government, metrics encourage rigor and objectivity. They make it possible to compare observations across regions and time periods. They facilitate understanding and collaboration.

### 1.2 Why Do You Need Metrics?

"When you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind: it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of science."—Lord Kelvin, Popular Lectures and Addresses (1891–1894)<sup>2</sup>

Lord Kelvin, a British physicist and the manager in charge of laying the first successful transatlantic cable, was one of history's great advocates for quantitative investigation. In his day, however, mathematical rigor had not yet spread widely beyond the worlds of science, engineering, and finance. Much has changed since then.

Today, numeric fluency is a crucial skill for every business leader. Managers must quantify market opportunities and competitive threats. They must justify the financial risks and benefits of their decisions. They must evaluate plans, explain variances, judge performance, and identify leverage points for improvement—all in numeric terms. These responsibilities require a strong command of measurements and of the systems and formulas that generate them. In short, they require metrics.

Managers must select, calculate, and explain key business metrics. They must understand how each is constructed and how to use it in decision making. Consider the following, more recent quotes from management experts:

"...every metric, whether it is used explicitly to influence behavior, to evaluate future strategies, or simply to take stock, will affect actions and decisions." <sup>3</sup>

"If you can't measure it, you can't manage it."4

# 1.3 Marketing Metrics: Opportunities, Performance, and Accountability

Marketers are by no means immune to the drive toward quantitative planning and evaluation. Marketing may once have been regarded as more an art than a science. Executives may once have cheerfully admitted that they knew they wasted half the money they spent on advertising, but they didn't know which half. Those days, however, are gone.

Today, marketers must understand their addressable markets quantitatively. They must measure new opportunities and the investment needed to realize them. Marketers must quantify the value of products, customers, and distribution channels—all under various pricing and promotional scenarios. Increasingly, marketers are held accountable for the financial ramifications of their decisions. Observers have noted this trend in graphic terms:

"For years, corporate marketers have walked into budget meetings like neighborhood junkies. They couldn't always justify how well they spent past handouts or what difference it all made. They just wanted more money—for flashy TV ads, for big-ticket events, for, you know, getting out the message and building up the brand. But those heady days of blind budget increases are fast being replaced with a new mantra: measurement and accountability." 5

#### 1.4 Choosing the Right Numbers

The numeric imperative represents a challenge. In business and economics, many metrics are complex and difficult to master. Some are highly specialized and best suited to specific analyses. Many require data that may be approximate, incomplete, or unavailable.

Under these circumstances, no single metric is likely to be perfect. For this reason, we recommend that marketers use a portfolio or "dashboard" of metrics. By doing so, they can view market dynamics from various perspectives and arrive at "triangulated" strategies and solutions. In addition, with multiple metrics, marketers can use each as a check on the others. In this way, they can maximize the accuracy of their knowledge.<sup>6</sup> They can also estimate or project one data point on the basis of others. Of course, to use multiple metrics effectively, marketers must appreciate the relations between them and the limitations inherent in each.

When this understanding is achieved, however, metrics can help a firm maintain a productive focus on customers and markets. They can help managers identify the strengths and weaknesses in both strategies and execution. Mathematically defined and widely disseminated, metrics can become part of a precise, operational language within a firm.

#### Data Availability and Globalization of Metrics

A further challenge in metrics stems from wide variations in the availability of data between industries and geographies. Recognizing these variations, we have tried to suggest alternative sources and procedures for estimating some of the metrics presented in this book.

Fortunately, although both the range and type of marketing metrics may vary between countries,<sup>7</sup> these differences are shrinking rapidly; the inter-country differences have shrunk considerably since the first edition of this book. Ambler and colleagues,<sup>8</sup> for example, report that performance metrics have become a common language among marketers and that they are now used to rally teams and benchmark efforts internationally.

## 1.5 What Are We Measuring?

Measuring marketing is highly challenging. For example, marketers generally agree that a firm's brand is a key marketing asset, but different marketers all have subtly different views of what is meant by a brand. It is hard to measure something when you don't know what exactly you are trying to measure. We, therefore, suggest that the first thing marketers need to establish is a clear definition of what they are trying to measure.

Watt and van den Berg distinguish theoretical and operational definitions in a way that we find useful:

"Concepts represent the 'real world' phenomena being explained by the theory. The scientific method requires that the nature of these concepts be unambiguously communicated to others. This requirement mandates the creation of theoretical definitions....Concepts must also be objectively observed. This requires that we create operational definitions, which translate the verbal concepts into corresponding variables which can be measured."

The same authors differentiate constructs from concepts, arguing that the former are even more abstract than concepts and cannot be directly observed. They use "source credibility" as an example of a construct that comprises concepts such as expertise, status, and objectivity. Of course, constructs can also be operationalized in a number of ways.

To see what this means, note that marketing has a number of basic ideas that capture real-world phenomena; let us call these *concepts*. These basic ideas are very important to marketers and can be explained—and even formally defined—verbally. These concepts are, however, not the same as metrics. For example, loyalty is a critical concept for many marketers, but my idea of loyalty may differ from yours. Is loyalty demonstrated when I visit a grocery store every week? What if that grocery store is the only one I can easily get to? In that case, I might not feel loyal to the store, but I still visit it every week. Someone else might feel highly loyal to the same store but live much further away and only be able to visit irregularly. Which, if any, of these consumers are loyal?

We must make concrete our abstract concept of loyalty by providing an operational definition, a precise specification in numeric terms of what exactly we mean. This allows us to create metrics to keep track of how a firm is performing against the operational definitions specified. This book aims to improve measurement validity—how well you translate your ideas into numbers; we do not seek to provide new ways of looking at marketing or argue which concepts are more important than any others.

Some common ways of translating concepts into metrics are shown in Table 1.1.

Concept Metric(s)

Loyalty Share of Requirements (SOR)

Distribution All Commodity Volume (ACV), Total ACV

Market concentration Three-Firm Concentration Ratio, Herfindahl Index

**Table 1.1 Common Metrics Used to Track Important Concepts** 

Keeping a clear distinction between concepts, operational definitions, and metrics is surprisingly hard. In any given marketing team or organization, one can expect to see a certain level of confusion. We hope our book helps reduce this confusion and promote a common language, but we are realists. Indeed, we are happy to acknowledge that we also make mistakes and inadvertently refer to metrics by the name of the concept. We are trying to be clear but please contact Neil Bendle if you see areas where we can improve (just in case there is a fifth edition).

There will continue to be healthy (or at least vigorous) debates in marketing on what *should* be meant by various theoretical concepts and constructs. However, at the level of measurement and reporting, we believe that the field should be striving for consistency, accuracy, and reliability that allow us to at least understand what other people mean, even if we disagree with what they are suggesting. No shared understanding can happen without clear operational definitions. Providing these definitions is the primary focus of the Common Language Marketing Dictionary. The aim of this project is to improve the measurement of marketing, specifically making measurement in the discipline more consistent. It has been undertaken by MASB (Marketing Accountability Standards Board, www.themasb.org), along with MSI (Marketing Science Institute, www.msi. org), ANA (Association of National Advertisers, www.ana.net), and AMA (American Marketing Association, www.ama.org). We encourage readers to learn more about, and support, the initiative, which can be accessed at marketing-dictionary.org. We add a special plea to any professors reading the book to encourage your students to use the Common Language Marketing Dictionary (for example, by adding a link in any syllabi).

#### 1.6 Value of Information

An almost infinite number of metrics could be calculated. Even the most quantitative marketer will recognize that having more calculations doesn't always help make better decisions. Thus, one question a marketer may want to start with is "When is a metric useful?"

A classic distinction is between data versus information versus knowledge. Data are what we have a profusion of in the world of big data. Data are in raw form and doesn't tell us anything without being manipulated in some way. Information is data that has been converted into something that can be used by a human reader. Ideally, information gets converted into knowledge when a user understands and internalizes the information. Thus, one way of thinking about the value of information is whether it creates knowledge or not. Data that are simply being stored are not currently valuable but often has the potential to be valuable if approached in the right way. How can we extract the information from the data we have? (Clearly marketers should ensure that they have legal and ethical rights to use the data in this manner. Consent is usually a key consideration, but discussing law and ethics is beyond the scope of this book.)

One way to increase the value of information is to make it easier for users to convert it to knowledge. To do this, we recommend considering how the information you have extracted, such as the metrics you have calculated, can be presented in a user-friendly way. There are now many companies, such as Tableau software (www.tableau.com), that specialize in translating information into visual representations. Such visual depictions are an excellent aid to allowing users to more easily extract the message from the information you provide them.

An alternative way of thinking about the value of information is whether the information helps take an action. Information is valuable only if it allows us to make better decisions. To cast this in terms of metrics, a metric's value arises from its ability to improve our decisions in some way. Note that this is a very pragmatic approach, as the value of the metric depends upon what the user can do with the result. A chief marketing officer (CMO) might find estimates of the value of the brand she controls invaluable when arguing for increasing the marketing budget with her C-suite colleagues. A more junior marketer, however, may feel that he can't impact brand value in any significant way, so knowing this number is of no value to him. The more junior marketer can, however, impact whether the product is on the retailers' shelves and so may find distribution measures invaluable.

A related point is that people sometimes equate the value of information with the range of possible alternatives that the metric can take. Knowing the precise number for a metric that swings wildly can be very informative and thus valuable. If the metric never changes significantly, knowing its precise reading at any given point is unlikely to be very valuable. For example, information on the sales of a fashion item where consumer reaction is unpredictable can be exceptionally valuable for stock planning. Estimates for items with more predictable sales (such as matches) are less valuable because knowing the precise sales number is less likely to change the inventory order you would make without the more refined sales estimate. For items with very stable sales, your estimate based upon last year is likely to be good regardless of whether you calculate the precise metric for this year.

Testing is a critical component of marketing plans, but where should you spend your testing budget? What gives you the most information for your money? Scott Armstrong notes that this depends upon what you are trying to achieve. Of Sometimes you will want to emulate much academic research and drill down into a very specific topic. This can lead to very consistent estimates, also known as being "reliable." This means every time you measure, you get a similar result because you measure exactly the same thing each time you measure. In everyday life, the electronic scale that weighs you every morning is reliable, and you generally get the same result if nothing changes. This approach makes sense if it is critical for you to be very precise and if small changes in a metric would radically alter your plans.

More often, however, you aren't sure you are measuring the right thing. You want to know how the firm is performing generally, but you have a less-than-perfect understanding of what performance means exactly. You might be interested in your general health rather

than your precise weight. Your weight is likely to be connected to your general health but is far from the complete picture. In such situations, you are interested in whether the measures you are using are valid and whether the measures accurately capture what you want them to capture. To assess validity, you are likely to want multiple measures, in which case you will spread your testing budget across a wider range of tests and will be more tolerant of conflicting results. To assess your health, you might look at your weight, your blood pressure, your blood sugar, the ease of your breathing, etc. These will sometimes point in different directions, but put together they give a more comprehensive picture than fixating upon a single metric—however reliably the single metric can be measured.

To have valid estimates of hard-to-define concepts, such as performance, we often recommend a variety of tests and the use of multiple metrics. As we will discuss in Chapters 13 and 14, it is often possible to have one metric look very good while the true value of the company is destroyed. Testing multiple different areas and assessing different metrics may give you a less precise picture (it is less reliable) but is much less likely to miss a major problem (it is more valid).

## 1.7 Mastering Metrics

Being able to "crunch the numbers" is vital to success in marketing. Knowing which numbers to crunch, however, is a skill that develops over time. Toward that end, managers must practice the use of metrics and learn from their mistakes. By working through the examples in this book, we hope our readers will gain both confidence and a firm understanding of the fundamentals of quantitative marketing. With time and experience, we trust that you will also develop an intuition about metrics and learn to dig deeper when calculations appear suspect or puzzling.

Ultimately, with regard to metrics, we believe many of our readers will require not only familiarity but also fluency. That is, managers should be able to perform relevant calculations on the fly—under pressure, in board meetings, and during strategic deliberations and negotiations. Although not all readers will require that level of fluency, we believe it will be increasingly expected of candidates for senior management positions, especially those with significant financial responsibility. We anticipate that a mastery of quantitative marketing will become a means for many of our readers to differentiate and position themselves for career advancement in an ever-more-challenging environment.

### 1.8 Where Are the "Top Ten" Metrics?

Working on this book, we received many requests to provide a short list of the "key" or "top ten" marketing metrics. The intuition behind this request is that readers (managers and students) want to be able to focus their attention on the "most important" metrics.

Although some readers may have enjoyed reading the earlier editions from cover to cover, it is safe to say that none of the authors have had that pleasure. We view the book as a reference book—something to keep on the shelf and use when confronted with a new or less familiar metric. The list of metrics covered is therefore long so as to be useful for those occasions. It is not intended to be a guide to the *X* number of metrics you must apply to monitor marketing. It is this view of the book as a reference guide that helps explain why we do not rate or rank the long list of metrics. We see you pulling the book from the shelf as needed rather than us pushing our preferred metrics upon you.

Specifically, the reasons for us not providing the short list of "really important" metrics are as follows.

First, we believe that any ranking of marketing metrics from most to least useful should depend on the type of business under consideration. Thus, what metrics you prefer depend upon what you need them for. For example, marketers of business-to-business products and services that go to market through a direct sales force don't need metrics that measure retail availability or dealer productivity.

Second, even what might begin as a short list tends to expand rapidly as metrics come in matched sets. For example, if customer lifetime value is important to your business (let's say, financial services), then you are also likely to use measures of retention and acquisition costs. The same notion applies to retail, media, sales force, and internet traffic metrics. If some of these are important to you, others in the same general categories are likely to be rated as useful, too.

Third, businesses don't always have access (at a reasonable cost) to the metrics they would like to have. Inevitably, some of the rankings presented will reflect the cost of obtaining the data that underlie the particular metrics. Some metrics may be interesting to know but are not worth considering if they cost more to obtain than the value of the information and insight they provide. The size of the organization thus matters. Small organizations may use metrics that are cheaper to obtain, whereas larger organizations are more likely to be able to realize the full value from expensive, proprietary, or custom-created metrics. The same goes for stages in the product life cycle. Managers of newly launched products often have different concerns and metrics to monitor them than do managers of mature products.

Fourth, we believe that some metrics currently ranked lower by managers will ultimately prove to be very useful when managers fully understand the pros and cons of a particular metric. For example, for many years, advocates for Economic Value Added (EVA) have argued it is the "gold standard" of profitability metrics, but when we discuss it with many managers, it ranks far below other financial performance measures, such as Return on Investment (ROI). We believe one reason for the low ranking of EVA is that this metric is less applicable at the "operating level" than for overall corporate performance. So even within the same business, depending on where a manager sits in the organization, some metrics are more relevant than others. Also, like EVA, many

metrics that we have included are relatively new to marketing, and many managers don't understand them well or know how they might be relevant to their particular business. Customer Lifetime Value is another metric that is gaining acceptance but is still unfamiliar to many managers. If all these metrics were perfectly understood, there would be no need for a book of this type.

We included the results of our survey of marketing managers in the second edition of this book so that readers could learn what metrics other managers thought were potentially useful. However, we became less convinced that the survey results were useful because metric use and understanding remain an awfully long way from where we want them to be. In the third and fourth editions, we have not included the survey and have instead used the space to explore more metrics.

Here we simply note the key points from the survey. For one thing, managers value the profit-related metrics Net Profit, ROI, and Margin most highly, even though these metrics have less to do with day-to-day marketing decisions. We presume this is because those are the metrics they are asked about by the people who control budgets. Customer Satisfaction was the most popular "non-financial" metric. Sales-related metrics, such as Sales Total, also proved popular.

#### 1.9 What Is New in the Fourth Edition?

The fourth edition of this book has significant changes. In addition to reviewing and clarifying the text from the third edition, we have included a number of major additions.

First, we now have a dedicated focus on sponsorship metrics, which we have included in Chapter 10. How much firms benefit from sponsorship is a topic that is both fiendishly difficult to measure and also critical for many of them. One need only think of how much Visa, Coke, and various beer companies invest in their partnerships. Sponsorship is often a strategic decision involving large commitments of resources over extended periods of time, such as when naming a stadium or sponsoring a golf or tennis tournament. We hope that this new edition will positively contribute to bringing more standardization and accountability to sponsorship so marketers can feel more confident in their investments.

Second, we have added sections in Chapter 12 on the interface among financial markets, accounting, and marketing metrics. We have provided this information for marketers who are involved in C-suite decisions or who hope to be in the future. Chapter 12 outlines difficulties in assessing the impact of marketing on the ultimate financial objectives of a publicly listed for-profit firm. We also note challenges marketers face in using financial accounting data for their decisions.

Third, in the 15 years since the first edition of this book was published, "omni-channel" has become a major marketing concept. In a new section, we outline how marketers can

measure their activities where there are multiple channels and sources of communication that consumers may access as part of a single purchase decision. We look at channel dependencies, how search and distribution interact, and online distribution metrics. We have broken off distribution measures from sales and created a new Chapter 7 featuring the new metrics.

Fourth, a completely new section of the book outlines changes that have occurred in the world of marketing metrics and accountability. We note progress that is being made by MASB on creating more discipline in marketing measurement. We highlight work by the International Organization for Standardization (ISO) at a multi-country level to improve brand evaluation.

Finally, in addition to these major changes, we have added some individual metrics such as Return on Advertising Spend.

We very much hope you enjoy this new edition of *Marketing Metrics*.

## 1.10 New Developments in the World of Marketing Metrics

Since the first edition of this book was published in 2006, there has been considerable progress in the world of marketing metrics. This section of the book outlines some of these developments and mentions some bigger issues related to the topic.

#### **MASB**

The Marketing Accountability Standards Board (MASB) is an independent body that aims to set standards for marketing accountability (see themasb.org). MASB was launched in 2007 from "The Boardroom Project," with the involvement of a number of major figures in the world of marketing accountability, including Meg Blair (founding President of The ARS Group) and Dave Stewart (President's Chair in Marketing and Law at Loyola Marymount University and former editor of the *Journal of Marketing* and the *Journal of the Academy of Marketing Science*).

Three of your authors (Paul, Dave, and Neil) have been heavily involved in MASB. Indeed, earlier editions of this book have had an influence on the Common Language Marketing Dictionary, a project of MASB that seeks to standardize marketing language (see marketing-dictionary.org). We see this as a major contribution to standardizing marketing. We hope managers and educators will encourage those they deal with to use terms that are widely recognized. The Common Language Marketing Dictionary is an evolving repository of marketing terms. Please share ideas for terms and edits of dictionary items with MASB or one of us.

MASB has a YouTube channel (www.youtube.com/c/masbmarketingaccountabilitystandardsboard) that houses videos explaining key marketing accountability-related

topics. Please view these videos if you are interested in more information about topics related to marketing accounting.

MASB is also involved in discussing the way marketing is presented in financial accounting, with the ultimate aim of improving the reporting of marketing's contribution to firm performance and generating greater accountability for marketing.

#### ISO 20671: Brand Evaluation—Principles and Fundamentals

One of MASB's key roles has been to represent the United States (under the delegated authority of the American National Standards Institute [ANSI]) at the ISO with respect to brand measurement. In 2019, the group launched ISO 20671: Brand Evaluation—Principles and Fundamentals. Anyone who works with brands should read this standard, which contains best practice advice on brand evaluation and management. (For more details, see www.iso.org/standard/68786.html). This standard includes the key advice that firms should hold regular brand audits.

#### **SASB**

The Sustainability Accounting Standards Board (SASB) has had considerable success in developing company reporting—specifically with respect to sustainability. SASB's concentration on sustainability issues means the organization experiences many similar issues to those faced by accountable marketers. One area of overlap is that measures adopted in financial accounting tend to avoid harder-to-assess values or values involving long time frames. This means financial accounting leaves a more limited picture of the firm and its sustainability both in the sense of the firm "being green" and the firm being run with a long-term mindset (such as investing in the brand). For more information on SASB, see www.sasb.org.

#### Organization of the Text

This book is organized into chapters that correspond to the various roles played by marketing metrics in enterprise management. Individual chapters are dedicated to metrics used in promotional strategy, advertising and sponsorship, and distribution, for example. Each chapter is composed of sections devoted to specific concepts and calculations.

We present these metrics in a sequence that may appear somewhat arbitrary, but there is a rationale behind it. In organizing this text, we have sought to strike a balance between two goals: (1) to establish core concepts first and build gradually toward increasing sophistication and (2) to group related metrics in clusters, helping our readers recognize patterns of mutual reinforcement and interdependence. In Figure 1.1, we offer a graphical presentation of this structure, demonstrating the interlocking nature of all marketing metrics—indeed of all marketing programs—as well as the central role of the customer.

The central issues addressed by the metrics in this book are as follows:

- Chapter 2, "Share of Hearts, Minds, and Markets": Customer perceptions, market share, and competitive analysis
- Chapter 3, "Margins and Profits": Revenues, cost structures, and profitability
- Chapter 4, "Product and Portfolio Management": Metrics behind product strategy, including measures of trial, growth, cannibalization, and brand equity
- *Chapter 5*, "*Customer Profitability*": The value of individual customers and relationships

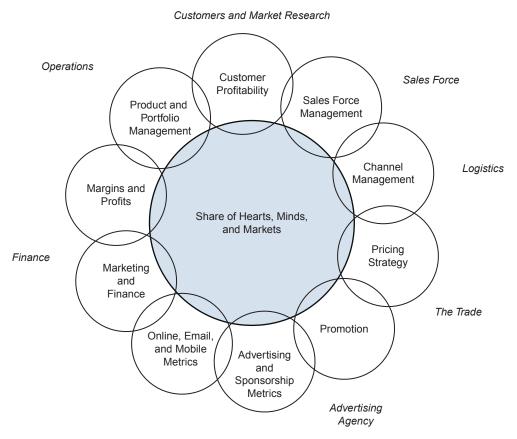


Figure 1.1 Marketing Metrics: Marketing at the Core of the Organization

- *Chapter 6*, "Sales Force Management": Sales force organization, performance, and compensation
- Chapter 7, "Channel Management": Distribution coverage and logistics

- *Chapter 8, "Pricing Strategy":* Price sensitivity and optimization, with an eye toward setting prices to maximize profits
- *Chapter 9, "Promotion":* Temporary price promotions, coupons, rebates, and trade allowances
- Chapter 10, "Advertising and Sponsorship Metrics": The central measures of advertising coverage and effectiveness, including reach, frequency, rating points, and impressions; models for consumer response to advertising; and sponsorship-relevant metrics
- Chapter 11, "Online, Email, and Mobile Metrics": Specialized metrics for web-based, mobile, and email campaigns
- Chapter 12, "Marketing and Finance": Financial evaluation of marketing programs
- Chapter 13, "The Marketing Metrics X-Ray and Testing": The use of metrics as leading indicators of opportunities, challenges, and financial performance
- Chapter 14, "System of Metrics": Decomposing marketing metrics into component parts to improve measurement accuracy, add managerial insight into problems, and assist marketing model building

#### Components of Each Chapter

As shown in Table 1.2, the chapters are composed of multiple sections, each dedicated to specific marketing concepts or metrics. Within each section, we open with definitions, formulas, and a brief description of the metrics covered. Next, in a passage titled "Construction," we explore the issues surrounding these metrics, including their formulation, application, interpretation, and strategic ramifications. We provide examples to illustrate calculations, reinforce concepts, and help readers verify their understanding of key formulas. That done, in a section titled "Data Sources, Complications, and Cautions," we probe the limitations of the metrics under consideration and potential pitfalls in their use. Toward that end, we also examine the assumptions underlying these metrics. Finally, we close many sections with a brief survey section titled "Related Metrics and Concepts."

In organizing the text in this way, our goal is straightforward: Most of the metrics in this book have broad implications and multiple layers of interpretation. Doctoral theses could be devoted to many of them—and have been written about some. In this book, however, we want to offer an accessible, practical reference. If the devil is in the details, we want to identify, locate, and warn readers against him but not to elaborate his entire demonology. Consequently, we discuss each metric in stages, working progressively toward increasing levels of sophistication. We invite our readers to sample this information as they see fit, exploring each metric to the depth that they find most useful and rewarding.

With an eye toward accessibility, we have also avoided advanced mathematical notation. Most of the calculations in this book can be performed by hand, on the back of the proverbial envelope. More complex or intensive computations may require a spreadsheet. Nothing further should be needed.

**Table 1.2 Major Metrics List** 

Section	Metric	Section	Metric
Share of Hearts, Minds, and Markets		Margins and Profits	
2.1	Revenue Market Share	3.1	Unit Margin
2.1	Unit Market Share	3.1	Margin (%)
2.2	Relative Market Share	3.2	Channel Margins
2.3	Brand Development Index	3.3	Average Price per Unit
2.3	Category Development Index	3.3	Price per Statistical Unit
2.4-2.6	Decomposition of Market Share	3.4	Variable and Fixed Costs
2.4	Market Penetration	3.5	Marketing Spending
2.4	Brand Penetration	3.6	Contribution per Unit
2.4	Penetration Share	3.6	Contribution Margin (%)
2.5	Share of Requirements	3.6	Break-Even Sales
2.6	Usage Index	3.7	Target Volume
2.7	Hierarchy of Effects	3.7	Target Revenues
2.7	Awareness	Product and Portfolio Management	
2.7	Top of Mind	4.1	Trial
2.7	Ad Awareness	4.1	Repeat Volume
2.7	Knowledge	4.1	Penetration
2.7	Consumer Beliefs	4.1	Volume Projections
2.7	Purchase Intentions	4.2	Year-on-Year Growth
2.7	Purchase Habits	4.2	Compound Annual Growth Rate (CAGR)
2.7	Loyalty	4.3	Cannibalization Rate
2.7	Likeability	4.3	Fair Share Draw Rate
2.8	Willingness to Recommend	4.4	Brand Equity Metrics
2.8	Customer Satisfaction	4.5	Conjoint Utilities
2.9	Net Promoter	4.6	Segment Utilities
2.10	Willingness to Search	4.7	Conjoint Utilities and Volume
2.11	Neuro-Marketing		Projections

Table 1.2 Continued

Section	Metric	Section	Metric
Customer Profitability		7.5	Combining Search and Distribution
5.1	Customers	7.6	Understanding Channel
5.1	Recency		Dependencies
5.1	Retention Rate	Pricing Str	rategy
5.2	Customer Profit	8.1	Price Premium
5.3	Customer Lifetime Value	8.2	Reservation Price
5.4	Prospect Lifetime Value	8.2	Percent Good Value
5.5	Average Acquisition Cost	8.3	Price Elasticity of Demand
5.5	Average Retention Cost	8.4	Optimal Price
Sales For	ce Management	8.5	Residual Elasticity
6.1	Workload	Promotion	
6.1	Sales Potential Forecast	9.1	Baseline Sales
6.2	Sales Goal	9.1	Incremental Sales/Promotion Lift
6.3	Sales Force Effectiveness	9.2	Redemption Rates
6.4	Compensation	9.2	Costs for Coupons and Rebates
6.4	Break-Even Number of	9.2	Percentage Sales with Coupon
	Employees	9.3	Percent Sales on Deal
6.5	Sales Funnel, Sales Pipeline	9.3	Pass-Through
Channel .	Management	9.4	Price Waterfall
7.1	Numeric Distribution	Advartisin	g and Sponsorship Metrics
7.1	All Commodity Volume (ACV)	`	• •
7.1	Product Category Volume	10.1	Impressions  Cross Pating Paints (CPPs)
	(PCV)	10.1	Gross Rating Points (GRPs)
7.1	Total Distribution	10.2	Cost per Thousand Impressions (CPM)
7.1	Category Performance Ratio	10.3	Net Reach
7.2	Out of Stock	10.3	Average Frequency
7.2	Inventories	10.4	Frequency Response Functions
7.3	Markdowns	10.5	Effective Reach
7.3	Direct Product Profitability (DPP)	10.5	Effective Frequency
7.3	Gross Margin Return on	10.6	Share of Voice
7.4	Inventory Investment (GMROII) Online Distribution Metrics	10.7	Advertising Elasticity of Demand

Continues

Table 1.2 Continued

Section	Metric	Section	Metric
10.8	Return on Advertising Spend	11.7	Value of a Like
	(ROAS)	11.8	Downloads
10.9	Media Impressions from	11.9	Average Revenue per User
10.10	Sponsorship Return on Objective (ROO)	11.10	Email Metrics
10.11	Sponsorship Return on	Marketing	g and Finance
10.11	Investment (ROI)	12.1	Net Profit
Online. Ei	mail, and Mobile Metrics	12.1	Return on Sales (ROS)
11.1	Pageviews	12.1	Earnings Before Interest, Taxes,
11.2	Rich Media Display Time		Depreciation, and Amortization (EBITDA)
11.2	Rich Media Interaction Rate	12.2	Return on Investment (ROI)
11.3	Clickthrough Rate	12.3	Economic Profit (aka EVA®)
11.4	Cost per Click	12.4	Payback
11.4	Cost per Order	12.4	Net Present Value (NPV)
11.4	Cost per Customer Acquired	12.4	Internal Rate of Return (IRR)
11.5	Visits	12.5	Marketing Return on Investment
11.5	Visitors		(MROI)
11.5	Abandonment Rate	12.6	Financial Market Measures
11.6	Bounce Rate (websites)	12.7	Combined Market and
11.7	Friends/Followers/Supporters		Accounting Measures
11.7	Likes		

## Reference Materials

Throughout this text, we have highlighted formulas and definitions for easy reference. We have also included outlines of key terms at the beginning of each chapter and section. Within each formula, we have used the following notation to define all inputs and outputs:

**\$—(Dollar Terms):** A monetary value. We have used the dollar sign and "dollar terms" for brevity, but any other currency, including the euro, yen, dinar, or yuan, would be equally appropriate.

**%—(Percentage):** Used as the equivalent of fractions or decimals. For readability, we have intentionally omitted the step of multiplying decimals by 100 to obtain percentages.

**#—(Count):** *Used for such measures as unit sales or number of competitors.* 

**R—(Rating):** Expressed on a scale that translates qualitative judgments or preferences into numeric ratings. Example: A survey in which customers are asked to assign a rating of "1" to items that they find least satisfactory and "5" to those that are most satisfactory. Ratings have no intrinsic meaning without reference to their scale and context.

**I—(Index):** A comparative figure, often linked to or expressive of a market average (for example, the consumer price index). Indices are often interpreted as percentages.

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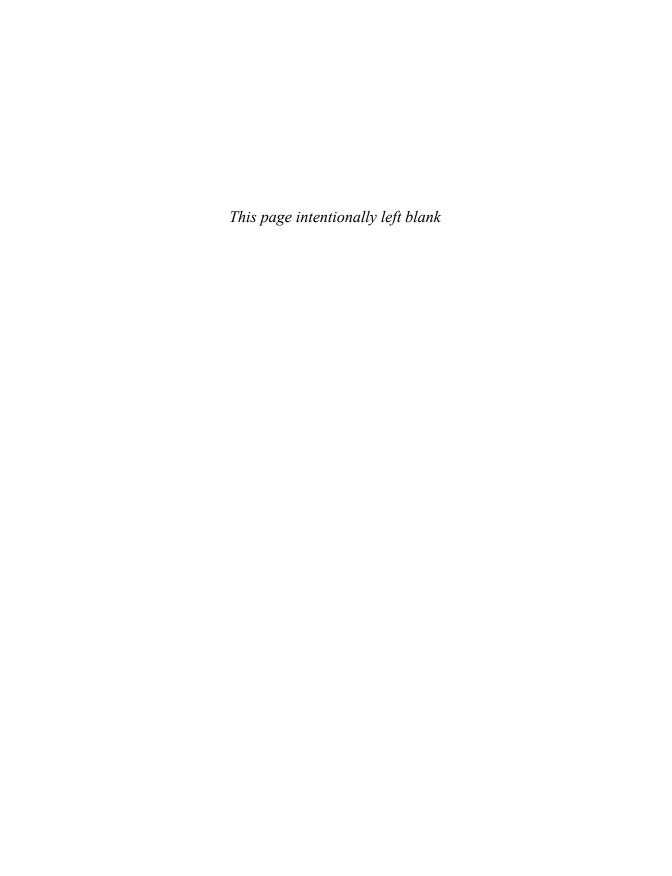
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## **INDEX**

SYMBOLS	Conversion Rate, 363	
	cookies, 364	
# (Count), 16	data sources, 363-364	
\$ (Dollar Terms), 16	defined, 363	
% (Percentage), 16	purpose of, 360–363	
% of Organic Sites Stocking the Brand, 210	Abnormal Returns, 397–399	
	above the fold, 228-229	
A	Acceptors/Accepters, Penetration, 36	
71	active customers, Penetration, 35-36	
Aaker, David	Active Users (Monthly/Daily), 373	
Brand Equity Metrics, 142–143	ACV (All Commodity Volume), 208	
BrandAsset® Valuator, 142-144	ACV on Display, 217	
AAU (Awareness, Attitudes and Usage), 44	ACV on Promotion, 217	
Ad Awareness, 46	Breadth of Distribution, 217	
Attitudes, 46	cautions, 216	
Awareness, 45–46	complications, 216	
cautions, 47–48	construction, 212–213	
complications, 47-48	data sources, 216	
construction, 45–47	defined, 210	
customer/non-customer responses, 47-48	Facing, 216	
data sources, 47–48	Features in Store, 217	
framing/administering questions, 47	Inventory, 217	
Geo-clustering, 48–49	pull marketing, 211	
Knowledge, 46	purpose of, 211	
lagging indicators, 48	push marketing, 211	
leading indicators, 48	related metrics/concepts, 216-217	
purpose of, 44–45	Share of Shelf, 216	
Q scores, 48	Store Versus Brand Measures, 216–217	
related metrics/concepts, 48-49	Ad Awareness, 22, 46	
Top of Mind, 22, 46	Ad rank, 359	
triangulating customer data, 48	advertising, testing, 416-418	
usage, 47	Advertising and Sponsorship metrics, 15-16,	
A/B testing, 415	303–304	
Abandonment Rate, 344, 360	Advertising Elasticity of Demand, 306, 327	
cautions, 363	cautions, 331–332	
Clickstreams, 361	complications, 331–332	
complications, 363-364	construction, 328–331	
construction, 363	data sources, 331–332	

Dorfman-Steiner Theorem, 329–330, 332	data sources, 311–312
purpose of, 327	defined, 309
Average Frequency, 305, 311	purpose of, 308
CPM, 304, 312	Reach, 307, 311
construction, 313	total ratings, 307
CPP, 313	TRP, 309–311
data sources, 313	Impressions, 304
defined, 312	cautions, 311–312
purpose of, 312	Clickthroughs, 352
related metrics/concepts, 313	complications, 311–312
Effective Frequency, 306, 323	construction, 308–309
cautions, 325	data sources, 311–312
complications, 325	defined, 308
construction, 324–325	Exposures, 307–308
data sources, 325	gross impressions, 314, 348
defined, 324	OTS, 307–308
purpose of, 323–324	Pageviews, 345–348
Effective Reach, 305, 323	purpose of, 307–308
cautions, 325	total exposures, 314
complications, 325	Net Reach, 305, 314. See also Reach
construction, 324–325	cautions, 318
data sources, 325	complications, 318
defined, 324	data sources, 318
purpose of, 323–324	defined, 316
Equivalent Media Value from Sponsorship, 306,	overlap, 316–318
334–336	purpose of, 314–318
Frequency Response Functions, 318	Venn diagrams, 316–317
cautions, 322–323	ROAS, 306, 332–334
complications, 322–323	Share of Voice, 306, 325
construction, 320–322	cautions, 326–327
data sources, 322–323	complications, 326–327
defined, 319	construction, 326
Learning curve, 305	data sources, 326–327
Learning Curve Response, 319–321	defined, 326
Linear function, 305	purpose of, 326
Linear Response, 319–321	Sponsorship metrics, 334
overview of, 305	Sponsorship ROI, 306, 336–339
purpose of, 319–320	Advertising as a Percentage of Sales, 103
related metrics/concepts, 323	Advertising Elasticity of Demand, 306, 327
Threshold function, 305	cautions, 331–332
Threshold Response, 319–322	complications, 331–332
Wear-in frequency, 323	construction, 328–331
Wear-out frequency, 323	data sources, 331–332
GRP, 304, 307	Dorfman-Steiner Theorem, 329-330, 332
cautions, 311–312	purpose of, 327
complications, 311–312	

Advocacy, 210, 233	Awareness, Attitudes and Usage. See AAU
All Commodity Volume. See ACV	awareness in sales projection models, lack of,
apps (applications), Rank of App in App Store, 229	118–119
Armstrong and the value of information in testing, Scott, 6	В
assessing performance, marketing metrics x-rays	balanced territories, effects of, 188-189
Big Tobacco Company scenario, 409-412	Baseline Sales, 281
comparing firms on customer metrics, 405, 406	cautions, 288–289
customer attitudes/awareness of two firms, 405, 406	complications, 288-289
customer profitability of two firms, 405	construction, 283–288
grandparent's savings scenario, 403-406	data sources, 288–289
Prestige Luggage scenario, 407-409	defined, 282–283
attracting/retaining customers, performance	long-term effects of promotions, 289
monitoring, 162	purpose of, 283
auctions, second-price, 244	basis points, 134
availability of data, metrics, 3	BAV Group, BrandAsset Valuator, 143–144
Average Acquisition Cost, 161	BCG Matrix, 27–28 BDI (Brand Development Index), 20, 31
construction, 182, 183	•
data sources, 183–184	complications, 33 construction, 32
defined, 182	, , , , , , , , , , , , , , , , , , , ,
purpose of, 182	data sources, 33
Average Frequency, 305, 311, 315	purpose of, 31
Average Margins	benchmark ROAS®, 333
construction, 89	Best Global Brands report, 146
data sources, 92	Big Tobacco Company scenario (performance assessments), 409–412
defined, 87–88	Borden Jr. and Marketing Mix Models, Neil, 429
purpose of, 88–89	Bounce Rate
SKU, 88–89	email, 374–375
Average Price Charged, 240	website, 344
Average Price Displayed, 240–241	cautions, 365–367
Average Price Paid, 239	complications, 365–367
Average Price per Unit, 69	construction, 365
construction, 89	data sources, 365–367
data sources, 92	defined, 364, 365
defined, 87–88	first-click attribution, 366–367
purpose of, 88–89	last-click attribution, 366–367
SKU, 88–89	linear attribution, 366–367
Average Retention Cost, 161	purpose of, 365
construction, 182, 183	Brand Development Index. See BDI
data sources, 183–184	Brand Equity 10, 142–143
defined, 182	Brand Equity Metrics, 115
purpose of, 182	brand equity, 141–142
Average Revenue per User, 373	Brand Equity 10, 142–143
Awareness, 22, 45–46	Diana Equity 10, 112 110

Brand Evaluation Model, 146–147	Business Week, margins, 67
Brand Finance, 144–145	buying power, 189
Brand Identity, 148	
Brand Image, 148	C
Brand Position, 148	C
brand ratings, 144-145	CAGR (Compound Annual Growth Rate), 115
brand value, 140-142	basis points, 134
BrandAsset® Valuator, 142-144	Compounding Growth, Value at Future
BrandZ, 145–146	Period, 132
cautions, 148	construction, 130-133
complications, 148	data sources, 133-134
Conjoint Analysis, 147	defined, 129
construction, 142–147	Life Cycles, 134
data sources, 148	measuring growth, 130
defined, 140	percentage points, 133
Product Differentiation, 148	purpose of, 130
purpose of, 140–142	related metrics/concepts, 134
Ramsellar, 144	calculating prices at distribution level, 78
related metrics/concepts, 148	Cannibalization Rate, 115, 134–137
"Royalty Relief," 144	cautions, 138-139
Brand Evaluation Model, 146–147	complications, 138-139
Brand Finance, 144–145	data sources, 138-139
Brand Identity, 148	defined, 134
Brand Image, 148	cars, Market for Small Urban Cars example,
Brand on Landing Page, 229	Relative Market Share, 28–29
Brand Penetration, 21	Category Development Index. See CDI
Brand Position, 148	Category Penetration, 21
brand ratings, 144–145	Category Performance Ratio, 208,
brand value, 140–142	215–216 CDL (Cotogowy Davidonment Inday) 21, 21
Brand Versus Store Measures, 216–217	CDI (Category Development Index), 21, 31
BrandAsset® Valuator, 142–144	complications, 33 construction, 32
BrandZ, 145–146	,
Breadth of Distribution, 217	data sources, 33 purpose of, 31
breakage, 292	1 1
Break-Even Number of Employees, 187	related metrics/concepts, 33
Break-Even Sales Level, 70	Channel Dependencies
cautions, 107–108	Advocacy, 233
complications, 107–108	cautions, 233
construction, 105–107	complications, 233 construction, 233
data sources, 107–108	
defined, 104	Cross-Channel Conversions, 233
earnings impact of marketing activity, 104	Cross-Channel Delivery/Returns, 233
incremental investments, 107	Cross-Channel Support, 233
Payback Period, 108	data sources, 233
purpose of, 104	defined, 231
related metrics/concepts, 108	purpose of, 231–233

showrooming, 232	GMROII, 209
webrooming, 232	construction, 225
Channel Management metrics, 15, 207	data sources, 227
% of Organic Sites Stocking the Brand, 210	defined, 223–224
Advocacy, 210, 233	Direct Product Costs, 225
ACV, 208	purpose of, 224
ACV on Display, 217	related metrics/concepts, 227
ACV on Promotion, 217	Shopping Basket Margin, 227
Breadth of Distribution, 217	Inventories, 209
cautions, 216	cautions, 221–222
complications, 216	complications, 221–222
construction, 212–213	construction, 218–221
data sources, 216	Consumer Off-Take, 223
defined, 210	data sources, 221–222
Facing, 216	Deductions, 223
Features in Store, 217	defined, 217
Inventory, 217	Diverted Merchandise/Goods, 223
pull marketing, 211	FIFO, 222
purpose of, 211	Inventory Days, 220–221
push marketing, 211	Inventory Turns, 219–220
related metrics/concepts, 216–217	LIFO, 222
Share of Shelf, 216	Misshipments, 222
Store Versus Brand Measures, 216–217	Net Out-of-Stocks, 219
Category Performance Ratio, 208	Obsolescence, 223
Channel Dependencies	Percentage On-Time Delivery, 219
Advocacy, 233	Pipeline Sales, 223
cautions, 233	purpose of, 218
complications, 233	Rain Checks/Make-Goods on Promotions, 222
construction, 233	related metrics/concepts, 218
Cross-Channel Conversions, 233	service levels, 219
Cross-Channel Delivery/Returns, 233	Shrinkage, 223
Cross-Channel Support, 233	Markdowns, 209
data sources, 233	construction, 225
defined, 231	data sources, 227
purpose of, 231–233	defined, 223–224
showrooming, 232	Direct Product Costs, 225
webrooming, 232	purpose of, 224
Clicks to Product, 209	related metrics/concepts, 227
DPP, 209	Shopping Basket Margin, 227
construction, 225–226	Numeric Distribution, 208
data sources, 227	Breadth of Distribution, 217
defined, 223–224	cautions, 216
Direct Product Costs, 225	complications, 216
purpose of, 224	construction, 208
related metrics/concepts, 227	data sources, 216
Shopping Basket Margin, 227	defined, 210
Supplied Daniel Hall gill, 221	acjinea, 210

racing, 210	PC V, 208
Features in Store, 217	Breadth of Distribution, 217
Inventory, 217	Category Performance Ratio, 215–216
pull marketing, 211	cautions, 216
purpose of, 211	complications, 216
push marketing, 211	construction, 213–216
related metrics/concepts, 216–217	data sources, 216
Share of Shelf, 216	defined, 210
Store Versus Brand Measures, 216–217	Facing, 216
Online Distribution metrics	Features in Store, 217
above the fold, 228–229	Inventory, 217
Brand on Landing Page, 229	Net Out-of-Stocks, 219
cautions, 229	pull marketing, 211
Clicks to Product, 229	purpose of, 211
complications, 229	push marketing, 211
construction, 228–229	related metrics/concepts, 216–217
data sources, 229	Share of Shelf, 216
defined, 228	Store Versus Brand Measures, 216–217
purpose of, 228	Total Distribution, 215
Rank of App in App Store, 229	Search and Distribution metrics
Rank of Brand/SKU, 229	cautions, 231
SERP, 228	complications, 231
Out-of-Stock, 208	construction, 230–231
cautions, 221–222	data sources, 231
complications, 221–222	defined, 230
construction, 218–221	online accessibility to product, 230
Consumer Off-Take, 223	PLA, 230, 231
data sources, 221–222	purpose of, 230
Deductions, 223	sponsored sites, 231
defined, 217	Total Distribution, 208
Diverted Merchandise/Goods, 223	Channel Margins, 69
FIFO, 222	Average Margins, 84–87
Inventory Days, 220–221	calculating prices at distribution level, 78
Inventory Turns, 219–220	cautions, 82–83
LIFO, 222	complications, 82–83
Misshipments, 222	construction, 79–80
Net Out-of-Stocks, 219	data sources, 82–83
Obsolescence, 223	defined, 77
Percentage On-Time Delivery, 219	First Channel Member's Selling Price, 80–82
Pipeline Sales, 223	Hybrid (Mixed) Channel Margins, 83–84
purpose of, 218	purpose of, 78
Rain Checks/Make-Goods on	related metrics/concepts, 83–87
Promotions, 222	Choice Modeling, 150–151
related metrics/concepts, 218	Clicks to Product, 209, 229
service levels, 219	Clickstreams, 361
Shrinkage, 223	,

Clickthrough Rate, 342	construction, 150–153
cautions, 353–354	data sources, 153-154
Clickthroughs, 352	defined, 149
complications, 353–354	purpose of, 149–150
construction, 352	relative consumer preferences for product
data sources, 353-354	attributes, 149–150
defined, 351	segment identification based on conjoint utilities, 154–155
purpose of, 352	Conjoint Utilities and Volume Projection, 116
Cluster Analysis, 155–156	cautions, 157–158
cohort and incubate, Customer Lifetime Value, 173–174	complications, 157–158
Cold Leads, Sales Pipeline, 202	data sources, 157-158
commissioned sales costs, Marketing Spending,	defined, 157
101–102	market share projections, 157
Common Language Marketing Dictionary, 5	purpose of, 157
Company Profit from New Products, 129	sales volume projections, 157
comparing territories, 189-190	Constant Elasticity, 252–255
Compensation, 186	Consumer Beliefs, 22
cautions, 200–201	consumer decisions, compensatory/non-
complications, 200–201	compensatory, 151–153
construction, 199-200	Consumer Off-Take, 223
data sources, 200-201	consumer preferences for product attributes,
defined, 198	149–150
purpose of, 198–199	Contribution Margin, 70
compensatory/non-compensatory consumer	Contribution per Unit, 70
decisions, 151–153	cautions, 107–108
Competitor Reaction Elasticity, 268	complications, 107–108
cautions, 272	construction, 105–107 data sources, 107–108
complications, 272	
construction, 270–271	defined, 104
data sources, 272	earnings impact of marketing activity, 104
prisoner's dilemma pricing, 272–278	Payback Period, 108
purpose of, 268–270	purpose of, 104
Complaints, Number of	related metrics/concepts, 108
Customer Satisfaction, 52	Conversion Rate, 363
Willingness to Recommend, 52	cookies, 364
Compounding Growth, Value at Future Period, 132	Cost per Click, 342
concepts, 4	Ad rank, 359
Conjoint Analysis, 147, 150–151, 244	cautions, 357
Conjoint Utilities, 115	complications, 357
cautions, 153–154	construction, 356–357
Choice Modeling, 150–151	Cost per Customer Acquired, 357
compensatory/non-compensatory consumer decisions, 151–153	data sources, 357 defined, 355
complications, 153–154	purpose of, 355–356
Conjoint Analysis, 150–151	search engines, 358–360

Cost per Customer Acquirea, 557	maii-in repates, 292–293
Cost per Friend (Like), 368	purpose of, 291
Cost per Impression, 343	related metrics/concepts, 292–293
Ad rank, 359	Total Coupon Cost, 291
cautions, 357	Percentage Sales with Coupon, 281
complications, 357	breakage, 292
construction, 356–357	cautions, 292
Cost per Customer Acquired, 357	complications, 292
data sources, 357	construction, 291–292
defined, 355	data sources, 292
purpose of, 355–356	defined, 290
search engines, 358–360	mail-in rebates, 292–293
Cost per Order, 343	purpose of, 291
Ad rank, 359	related metrics/concepts, 292–293
cautions, 357	Total Coupon Cost, 291
complications, 357	Total Coupon Cost, 291
construction, 356–357	CPE (Cost Per Engagement), 375
Cost per Customer Acquired, 357	CPM rates (Cost per Thousand Impressions),
data sources, 357	304, 312
defined, 355	construction, 313
purpose of, 355–356	Cost per Point (CPP), 313
search engines, 358-360	data sources, 313
Cost per Point (CPP), 313	defined, 312
Cost per Thousand Impressions. See CPM	purpose of, 312
Costs for Coupons and Rebates, 281	related metrics/concepts, 313
breakage, 292	CPP (Cost per Point), 313
cautions, 292	Cross Elasticity, 268
complications, 292	cautions, 272
construction, 291–292	complications, 272
data sources, 292	construction, 270–271
defined, 290	data sources, 272
mail-in rebates, 292-293	prisoner's dilemma pricing, 272–278
purpose of, 291	purpose of, 268–270
related metrics/concepts, 292-293	Cross-Channel Conversions, 233
Total Coupon Cost, 291	Cross-Channel Delivery/Returns, 233
Count (#), 16	Cross-Channel Support, 233
counting customers, 162–165	curves (demand schedules), 244, 252–255
coupons	Customer Lifetime Value, 8-9, 161
Costs for Coupons and Rebates, 281	cautions, 176–178
breakage, 292	cohort and incubate, 173-174
cautions, 292	complications, 176–178
complications, 292	construction, 175, 179–180
construction, 291–292	data sources, 176-178, 180-181
data sources, 292	defined, 172, 178
defined, 290	Infinite Horizon Assumption, 177–178

newly acquired customers, lifetime value of, 178–179	attracting/retaining customers, performance monitoring, 162
purpose of, 172–174, 178–179	cautions, 165
Customer Profit, 160	complications, 165
cautions, 171–172	construction, 162–165
complications, 171–172	counting customers, 162–165
construction, 168–170	data sources, 165
data sources, 171–172	defining properly, importance of, 165-167
defined, 167	purpose of, 162
profitability of individual customers, 167-168	Prospect Lifetime Value, 161
purpose of, 167–168	construction, 179–180
whale curves, 168-170	data sources, 180–181
Customer Profitability metrics, 15, 159-160	defined, 178
Average Acquisition Cost, 161	lifetime value of newly acquired customers,
construction, 182–183	178–179
data sources, 183–184	purpose of, 178–179
defined, 182	Recency, 160, 162
purpose of, 182	attracting/retaining customers, performance
Average Retention Cost, 162	monitoring, 162
construction, 182–183	cautions, 165
data sources, 183–184	complications, 165
defined, 182	construction, 162–165
purpose of, 182	counting customers, 162–165
Customer Lifetime Value, 161	data sources, 165
cautions, 176–178	defining properly, importance of, 165–167
cohort and incubate, 173–174	purpose of, 162
complications, 176–178	Retention Rate, 160, 162
construction, 175, 179–180	attracting/retaining customers, performance
data sources, 176–178, 180–181	monitoring, 162 cautions, 165
defined, 172, 178	complications, 165
Infinite Horizon Assumption, 177–178	construction, 162–165
with Initial Margin, 177	counting customers, 162–165
lifetime value of newly acquired customers, 178–179	data sources, 165
	defining properly, importance of, 165–167
· · ·	purpose of, 162
	Customer Satisfaction, 23, 49
	construction, 50–51
construction, 168–170	data sources, 51-52
data sources, 171–172	Number of Complaints, 52
defined, 167	purpose of, 49–50
profitability of individual customers,	related metrics/concepts, 52
167–168	Trade Satisfaction, 52
purpose of, 167–168	customers
whale curves, 168–170	Acceptors/Accepters, Penetration, 36
purpose of, 172–174, 178–179 Customer Profit, 160 cautions, 171–172 complications, 171–172	purpose of, 162  Customer Satisfaction, 23, 49  construction, 50–51

active customers, Penetration, 35-36	Constant Elasticity, 252–255
attracting/retaining customers, performance	construction, 249–252
monitoring, 162	data sources, 255
counting, 162–165	defined, 249
defining properly, importance of, 165-167	demand schedules (curves), 252-255
Ever-tried customers, Penetration, 36	purpose of, 237
firing, 168	demand schedules (curves), 244,
growing, 168	252–255
newly acquired customers, lifetime value of,	difficult to measure metrics, estimating, 428
178–179	<b>Direct Product Costs, 225</b>
overservicing, 188	Direct Product Profitability. See DPP
profitability of individual customers,	Discounted Trial, 128–129
167–168	distribution
Prospects, 203	Breadth of Distribution, 217
Recency, 164	Search and Distribution metrics
retention, 164	cautions, 231
Retention Rate, 164–165	complications, 231
rewarding, 167	construction, 230–231
under-servicing, 187–188	data sources, 231
tiers of customers, 167–168	defined, 230
Customers metric, 160, 162	online accessibility to product, 230
attracting/retaining customers, performance	PLA, 230–231
monitoring, 162	purpose of, 230
cautions, 165	sponsored sites, 231
complications, 165	workloads, Sales Pipeline, 201
construction, 162–165	distribution level, calculating prices at
counting customers, 162–165	distribution level, 78
data sources, 165 defining properly, importance of, 165–167	districts, Sales Force Management metrics, 192–193
purpose of, 162	Diverted Merchandise/Goods, 223
	Dollar Terms (\$), 16
D	Dorfman-Steiner Theorem, 329-330, 332
D	Double Jeopardy
lashboard (portfolio) of metrics, 3	Share of Requirements, 38
lata availability, metrics, 3	Usage Index, 41–44
lecisions/objectives, monitoring relationships	Downloads, 345, 370-372
between, 429–432	DPP (Direct Product Profitability), 209
lecomposing metrics, 424–426	construction, 225–226
Decomposition of Market Share,	data sources, 227
21, 34–35	defined, 223–224
Deductions, 223, 299	Direct Product Costs, 225
lemand	purpose of, 224
Linear Demand, 245–248, 256–264	related metrics/concepts, 227
Price Elasticity of Demand, 237, 248	Shopping Basket Margin, 227
cautions, 255	Drucker on margins, Peter, 67
complications, 255	<b>Dupont Model, The, 421–423</b>

E	Compensation, 199-200
	cautions, 200–201
EBITDA (Earnings Before Interest, Taxes,	complications, 200–201
Depreciation and Amortization), 378, 380	data sources, 200–201
cautions, 381	defined, 198
complications, 381	purpose of, 198–199
construction, 381	Engagement Rate, 370
data sources, 381	EPS ratios, 400
NOPAT, 382	Equity, Market Value of, 397
purpose of, 378	Equivalent Media Value from Sponsorship, 306,
related metrics/concepts, 382	334–336
Economic Profit. See EVA	estimating difficult to measure metrics, 428
EDA (Electrodermal Activity), 61	EVA (Economic Value Added), 8–9, 378, 383–385
EDLP (Every Day Low Prices), 299	evaluating
EEG (Electroencephalography), 58, 64	sales personnel, 191
Effective Frequency, 306, 323	valuation versus evaluation, 142
cautions, 325	Every Day Low Prices (EDLP), 299
complications, 325	Ever-Tried, 36, 128-129
construction, 324–325	Evoked Set, 129
data sources, 325	Exposures, 307-308
defined, 324	eye tracking, 59–60, 64
purpose of, 323–324	
Effective Reach, 305, 323	77
cautions, 325	F
complications, 325	Facing, 216
construction, 324–325	FACS (Facial Action Coding System), 59, 64
data sources, 325	Fair Share Draw, 115, 137–138
defined, 324	cautions, 138–139
purpose of, 323–324	complications, 138–139
Email Clickthrough, 345	data sources, 138–139
Bounce Rate, 374–375	defined, 134
cautions, 376–377	Features in Store, 217
complications, 376–377	FIFO (First In, First Out), 222
construction, 375	Finance. See Marketing and Finance metrics
CPE, 375	Financial Market Measures, TSR
data sources, 376-377	cautions, 399
defined, 374	complications, 399
Email Open Rate, 375	construction, 398
Email Unsubscribe Rate, 375	
purpose of, 374	data sources, 399
email metrics. See Online, Email, and Mobile	defined, 397
metrics	Market Capitalization, 397
Email Unsubscribe Rate, 375	purpose of, 397
EMG (Electromyography), 61	financial metrics and marketing metrics, 412
employees	Financial Value Attributable to Marketing, 392
Break-Even Number of Employees, 187	firing customers, 168

firm performance	Wear-in frequency, 323
comparing firms on customer metrics,	Wear-out frequency, 323
405–406	Friends/Followers/Supporters, 344
customer attitudes/awareness of two firms,	cautions, 368-370
405–406	complications, 368–370
customer profitability of two firms, 405	construction, 368
Dupont Model, The, 421–423	Cost per Friend (Like), 368
modeling, 421–424	data sources, 368-370
profit margins, 421	defined, 367
return on sales, 421	Engagement Rate, 370
First Channel Member's Selling Price, 80–82	Outcomes per Friend, 368
first-click attribution, 366–367	purpose of, 367–368
First-Time Triers in Period T, 117	related metrics/concepts/concepts, 370
fixed costs. See Variable and Fixed Costs	1
fMRI (functional Magnetic Resonance Imaging),	
58, 64	G
fold, above the, 228–229	Geo-clustering, Awareness, Attitudes and Usage
Forced Trial, 128	(AAU), 48–49
Forecasted Sales Increase for District, 192	GMROII (Gross Margin Return on Inventory
forecasting sales, Sales Pipeline, 201	Investment), 209
Frequency	construction, 225
Average Frequency, 311, 315	data sources, 227
calculating, 315	defined, 223–224
Effective Frequency, 323	Direct Product Costs, 225
cautions, 325	purpose of, 224
complications, 325	related metrics/concepts/concepts, 227
construction, 324–325	Shopping Basket Margin, 227
data sources, 325	Google Analytics
defined, 324	Bounce Rate, 367
purpose of, 323–324	Sessions, 363
Reach and, 314–315	grandparent's savings scenario (performance
Frequency Response Functions, 318	assessments), 403–406
cautions, 322–323	gross impressions, 314, 348
complications, 322–323	Gross Margin, 77, 262–264
construction, 320–322	Gross Margin Return on Inventory Investment.
data sources, 322-323	See GMROII
defined, 319	Gross Model, The, 415-416
Learning curve, 305	GRP (Gross Rating Points), 304, 307
Learning Curve Response, 319–321	cautions, 311–312
Linear function, 305	complications, 311–312
Linear Response, 319–321	data sources, 311-312
overview of, 305	defined, 309
purpose of, 319–320	purpose of, 308
related metrics/concepts/concepts, 323	Reach, 307, 311
Threshold function, 305	total ratings, 307
Threshold Response, 319–322	TRP, 309–311

growing customers, 168	construction, 283–288
GSR (Galvanic Skin Response), 61	data sources, 288–289
	defined, 282–283
11	long-term effects of promotions, 289
H	purpose of, 283
heart rates, neuroscience, 61	incubate, cohort and, Customer Lifetime Value,
Herfindahl Index, Relative Market Share, 29-30	173–174
Hierarchy of Effects, 22, 44–49	Index (I), 17
HI-LO (High-Low), 300	Infinite Horizon Assumption, 177–178
Hits, 347	information, value of, 5–7, 412–414
Hybrid (Mixed) Channel Margins, 83–84	Initial Margin, Customer Lifetime Value with, 177 inputs, linear cost models, 98
	Interbrand
I	
1	Best Global Brands report, 146
I (Index), 17	Brand Evaluation Model, 146–147
IAT (Implicit Association Tests), 61	interest creation, Sales Pipeline, 202
identities of systems, 424–425	Inventories, 209
decomposing metrics, 424-426	cautions, 221–222
difficult to measure metrics, estimating, 428	complications, 221–222
law of large (and not-so-large) numbers, 426–428	construction, 218–221
Marketing Mix Models, 429–432	Consumer Off-Take, 223
related metrics/concepts/concepts, 433	data sources, 221–222
relationships between decisions/objectives,	Deductions, 223
monitoring, 429–432	defined, 217
Impressions, 304	Diverted Merchandise/Goods, 223
cautions, 311–312	FIFO, 222
Clickthroughs, 352	Inventory Days, 220–221
complications, 311–312	Inventory Turns, 219–220
construction, 308–309	LIFO, 222
data sources, 311-312	Misshipments, 222
defined, 308	Net Out-of-Stocks, 219
Exposures, 307	Obsolescence, 223
defined, 308	Percentage On-Time Delivery, 219
purpose of, 307–308	Pipeline Sales, 223
gross impressions, 314, 348	purpose of, 218
OTS, 307	Rain Checks/Make-Goods on
defined, 308	Promotions, 222
purpose of, 307–308	related metrics/concepts, 218
Pageviews, 345–348	service levels, 219
purpose of, 307–308	Shrinkage, 223
total exposures, 314	Inventory, 217
incremental investments, Break-Even Sales	Inventory Days, 220–221
Level, 107	Inventory Turns, 219–220
Incremental Sales (Promotional Lift), 281	investments (incremental), Break-Even Sales Level, 107
cautions, 288–289	
complications, 288–289	Invoice Price, 297

IRR (Internal Rate of Return), 379	Linear Response, 319–321
cautions, 389–390	List Price, 297
complications, 389–390	L.L. Bean, counting customers, 163-164
construction, 388–389	logistics
data sources, 389-390	Inventories
defined, 386	cautions, 221–222
ISO 20671: Brand Evaluation-Principles and	complications, 221–222
Fundamentals, 11	construction, 218–221
	Consumer Off-Take, 223
I V	data sources, 221–222
J - $K$	Deductions, 223
Kaplan, Robert, whale curves, 168-170	defined, 217
Kelvin, Lord, 1-2	Diverted Merchandise/Goods, 223
Knowledge, 22, 46	FIFO, 222
	Inventory Days, 220–221
7	Inventory Turns, 219–220
L	LIFO, 222
lack of awareness, sales projection models,	Misshipments, 222
118–119	Net Out-of-Stocks, 219
lagging indicators, AAU, 48	Obsolescence, 223
last-click attribution, 366–367	Percentage On-Time Delivery, 219
law of large (and not-so-large) numbers, 426–428	Pipeline Sales, 223
leading indicators, AAU, 48	purpose of, 218
Leads (Cold/Warm), Sales Pipeline, 202	Rain Checks/Make-Goods on Promotions, 222
Learning curve, 305	related metrics/concepts, 218
Learning Curve Response, 319–321	service levels, 219
Life Cycles, 134	Shrinkage, 223
lifetime value of newly acquired customers,	Out-of-Stock
178–179	cautions, 221–222
LIFO (Last In, First Out), 222	complications, 221–222
Likeability, 23	construction, 218–221
Likes, 344	Consumer Off-Take, 223
cautions, 368–370	data sources, 221–222
complications, 368–370	Deductions, 223
construction, 368	defined, 217
Cost per Friend (Like), 368	Diverted Merchandise/Goods, 223
data sources, 368-370	FIFO, 222
defined, 367	Inventory Days, 220–221
Engagement Rate, 370	Inventory Turns, 219–220
Outcomes per Friend, 368	LIFO, 222
purpose of, 367–368	Misshipments, 222
related metrics/concepts, 370	Net Out-of-Stocks, 219
linear attribution, 366–367	Obsolescence, 223
linear cost models, 98	Percentage On-Time Delivery, 219
Linear Demand, 245-248, 256-264	Pipeline Sales, 223
Linear function, 305	purpose of, 218

Rain Checks/Make-Goods on Promotions, 222	construction, 105–107
related metrics/concepts, 218	data sources, 107–108
service levels, 219	defined, 104
Shrinkage, 223	earnings impact of marketing activity, 104
Loyalty, 23	incremental investments, 107
	Payback Period, 108
1.6	purpose of, 104
M	related metrics/concepts, 108
mail-in rebates, 292–293	Business Week, 67
Major Metrics List, 13–14	Channel Margins, 69
Advertising and Sponsorship metrics, 15–16	Average Margins, 84–87
Channel Management metrics, 15	calculating prices at distribution level, 78
Customer Profitability metrics, 15	cautions, 82–83
Margins and Profits metrics, 14, 67–68	complications, 82–83
Marketing and Finance metrics, 16	construction, 79–80
Online, Email, and Mobile metrics, 16	data sources, 82–83
Pricing Strategy metrics, 15	defined, 77
Product and Portfolio Management metrics, 14,	First Channel Member's Selling Price, 80–82
113–114	Hybrid (Mixed) Channel Margins, 83-84
Promotion metrics, 15	purpose of, 78
Sales Force Management metrics, 15	related metrics/concepts, 83–87
Share of Hearts, Minds, and Markets metrics, 14	Contribution Margin, 70
Make-Goods on Promotions/Rain Checks, 222	Contribution per Unit, 70
Margin, 68	cautions, 107–108
cautions, 74–77	complications, 107–108
complications, 74–77	construction, 105–107
construction, 72–74	data sources, 107–108
data sources, 74–77	defined, 104
Gross Margin, 77	earnings impact of marketing activity, 104
margins as percentage of costs, 74-75	Payback Period, 108
markups or margins, 75–77	purpose of, 104
selling prices, 74	related metrics/concepts, 108
Unit Margin versus, 71	data sources, 74–77
units, defined, 71	Drucker, Peter, 67
various costs included, 77	Margin, 68
Margin on New Products, 129	cautions, 74–77
Margins and Profits metrics, 14, 67-68	complications, 74–77
Average Price per Unit, 69	construction, 72–74
construction, 89	data sources, 74–77
data sources, 92	Gross Margin, 77
defined, 87–88	margins as percentage of costs, 74–75
purpose of, 88–89	markups or margins, 75–77
SKU, 88–89	selling prices, 74
Break-Even Sales Level, 70	Unit Margin versus, 71
cautions, 107–108	units, defined, 71
complications, 107–108	various costs included, 77

margins, defined, /1	construction, 95-97
Marketing Spending, 69	cost changes with volume, 93
Advertising as a Percentage of Sales, 103	data sources, 97–99
cautions, 102–103	defined, 93
commissioned sales costs, 101–102	linear cost models, 98
complications, 102–103	purpose of, 93
construction, 101–102	total cost per unit, 96–97, 98–99
data sources, 102–103	Markdowns, 209
defined, 99	construction, 225
Marketing as a Percentage of Sales, 103	data sources, 227
purpose of, 99–101	defined, 223–224
related metrics/concepts, 103	Direct Product Costs, 225
Slotting Allowances, 103	purpose of, 224
Price per Statistical Unit, 69, 89–92	related metrics/concepts, 227
data sources, 92	Shopping Basket Margin, 227
defined, 87–88	Market Capitalization, 397
SKU, 89	Market Concentration, 29
Target Revenues, 70	Market for Small Urban Cars example, Relative
cautions, 110	Market Share, 28–29
complications, 110	market share, 19–20, 24
construction, 109–110	AAU, 44
data sources, 110	Ad Awareness, 46
defined, 108	Attitudes, 46
purpose of, 109	Awareness, 45–46
related metrics/concepts, 110–111	cautions, 47–48
Target Volume, 70	complications, 47–48
cautions, 110	construction, 45–47
complications, 110	customer/non-customer responses, 47–48
construction, 109–110	data sources, 47–48
data sources, 110	framing/administering questions, 47
defined, 108	Geo-clustering, 48–49
purpose of, 109	Knowledge, 46
related metrics/concepts, 110–111	lagging indicators, 48
Unit Margin, 68	leading indicators, 48
cautions, 74–77	purpose of, 44–45
complications, 74–77	Q scores, 48
construction, 72–74	related metrics/concepts, 48–49
defined, 71	Top of Mind, 22, 46
Gross Margin, 77	triangulating customer data, 48
Margin versus, 71	usage, 47
margins as percentage of costs, 74–75	Ad Awareness, 22, 46
markups or margins, 75–77	Awareness, 22, 45–46
selling prices, 74	BDI, 20, 31
various costs included, 77	complications, 33
Variable and Fixed Costs, 69	construction, 32
classification of costs depending on context, 98	data sources, 33

bias in reported shares, 26	Penetration, 33
Brand Penetration, 21	Acceptors/Accepters, 36
Category Penetration, 21	active customers, 35–36
cautions, 25–26	cautions, 35
CDI, 21, 31	complications, 35
complications, 33	construction, 34
construction, 32	data sources, 35
data sources, 33	decomposing market share, 34-35
purpose of, 31	Ever-tried customers, 36
related metrics/concepts, 33	related metrics/concepts, 35–36
complications, 25–26	Penetration Share, 21
construction, 24–25	projections, 157
Consumer Beliefs, 22	Purchase Habits, 22
Customer Satisfaction, 23, 49	Purchase Intentions, 22
construction, 50–51	purpose of, 24
data sources, 51–52	related metrics/concepts, 26
Number of Complaints, 52	Relative Market Share, 20, 27
purpose of, 49–50	BCG Matrix, 27–28
related metrics/concepts, 52	cautions, 30
Trade Satisfaction, 52	complications, 30
data parameters, 25–26	construction, 28–29
data sources, 25–26	data sources, 30
decomposing market share, Penetration, 34-35	Herfindahl Index, 29–30
Decomposition of Market Share, 21	Market Concentration, 29
defined, 24	Market for Small Urban Cars example, 28–29
Hierarchy of Effects, 22, 44–49	Market Share Rank, 30
indicators of future changes in shares, 20–23	Market Share-Small Urban Cars example, 29
Knowledge, 22, 46	purpose of, 27–28
Likeability, 23	related metrics/concepts, 29–30
Loyalty, 23	Share of Category, 30
market definitions, 25	Three- (Four-) Firm Concentration Ratio, 29
Net Promoter, 23, 53	Revenue Market Share, 20, 25
cautions, 54–55	Served Market, 26
complications, 54–55	Share of Requirements, 21, 36
construction, 53	cautions, 38
data sources, 54–55	complications, 38
NPS, 53–55	construction, 37–38
purpose of, 53	data sources, 38
Neuro-marketing Measures, 23	Double Jeopardy, 38
cautions, 63	Number of Brands Purchased, 39
complications, 63	purpose of, 37
construction, 57–61	related metrics/concepts, 39–40
data sources, 63	Repeat Rate, 39
neuroscience and, 57–61	Repurchase Rate, 39
purpose of, 57	retention rates, 39–40
usage, 61–63	Solo Usage Percentages, 39
	=

time periods measured, signal-to-noise ratios, 26	ROIMI, 392
Top of Mind, 22, 46	search engine marketing, 358
Unit Market Share, 20, 24–25	Marketing and Finance metrics, 16, 377-378
Usage Index, 21, 40	EBITDA, 378, 380
cautions, 41	cautions, 381
complications, 41	complications, 381
construction, 40–41	construction, 381
data sources, 41	data sources, 381
Double Jeopardy, 41–44	NOPAT, 382
purpose of, 40	purpose of, 378
related metrics/concepts, 44	related metrics/concepts, 382
Wal-Mart, 19	EPS ratio, 400
Willingness to Recommend, 23	EVA, 378, 383-385
construction, 50–51	IRR, 379
data sources, 51–52	cautions, 389–390
Number of Complaints, 52	complications, 389–390
purpose of, 49–50	construction, 388–389
related metrics/concepts, 52	data sources, 389–390
Trade Satisfaction, 52	defined, 386
Willingness to Search, 23, 55	Market to Book Ratio, 379, 399
cautions, 56	cautions, 402
complications, 56	complications, 402
construction, 56	construction, 400–402
data sources, 56	data sources, 402
purpose of, 55–56	purpose of, 400
Market Share Rank, Relative Market Share, 30	MROI, 379
Market Share-Small Urban Cars example,	cautions, 394–395
Relative Market Share, 29	complications, 394–395
Market to Book Ratio, 379, 399	construction, 391–394
cautions, 402	data sources, 394–395
complications, 402	defined, 390–391
construction, 400-402	Financial Value Attributable to Marketing, 392
data sources, 402	Media Exposure Return on Marketing
purpose of, 400	Investment, 395–396
Market Value of Equity, 397	purpose of, 391
marketing	related metrics/concepts, 395–396
dashboards, 410-411	ROIMI, 392
decisions/objectives, monitoring relationships	Net Profit, 378
between, 429–432	cautions, 381
Financial Value Attributable to Marketing, 392	complications, 381
logistics	construction, 380
Inventories, 217–223	data sources, 381
Out-of-Stock, 217–223	defined, 380
omni-channel marketing, 9-10	NOPAT, 382
pull marketing, 211	purpose of, 378
push marketing, 211	related metrics/concepts, 382

NPV, 3/9	comparing jirms on customer metrics, 403, 40
cautions, 389–390	customer attitudes/awareness of two firms,
complications, 389–390	405, 406
construction, 387–389	customer profitability of two firms, 405
data sources, 389–390	grandparent's savings scenario, 403–406
defined, 386	Prestige Luggage scenario, 407–409
spreadsheets, 390	financial metrics and, 412
Payback, 379	Gross Model, The, 415–416
cautions, 389–390	information, value of, 412–414
complications, 389–390	systems of identities, 424–425
construction, 386–387	decomposing metrics, 424–426
data sources, 389–390	estimating difficult to measure metrics, 428
defined, 386	law of large (and not-so-large) numbers,
purpose of, 386	426–428
PE ratios, 379, 399	Marketing Mix Models, 429–432
cautions, 402	monitoring relationships between decisions/objectives, 429–432
complications, 402	related metrics/concepts, 433
construction, 400–402	testing, 415
data sources, 402	advertising, 416–418
purpose of, 400	reliability testing, 414–415
Price to Book ratio, 401	Marketing Mix Models, 429–432
ROI, 378, 382–383	Marketing Spending, 69
ROS, 378, 380	Advertising as a Percentage of Sales, 103
cautions, 381	cautions, 102–103
complications, 381	commissioned sales costs, 101–102
construction, 381	complications, 102–103
data sources, 381	construction, 101–102
NOPAT, 382	data sources, 102–103
purpose of, 378	defined, 99
related metrics/concepts, 382	Marketing as a Percentage of Sales, 103
Tobin's q, 401	purpose of, 99–101
TSR, 379	related metrics/concepts, 103
cautions, 399	Slotting Allowances, 103
complications, 399	markups or margins, 75–77
construction, 398	MASB (Marketing Accountability Standards
data sources, 399	Board), 10, 11
defined, 397	ISO 20671: Brand Evaluation-Principles and
Market Capitalization, 397	Fundamentals, 11
purpose of, 397	YouTube channel, 10–11
farketing as a Percentage of Sales, 103	Maximum Reservation Price, 246
arketing metrics, 2, 403	measuring metric data, 5
A/B testing, 415	concepts, 4
assessing performance, grandparent's savings	"source credibility," 4
scenario, 403–404	Media Display Time, 342
assessing performance with x-rays	cautions, 350–351
Big Tobacco Company scenario, 409–412	complications, 350-351

construction, 349	Advertising Elasticity of Demand, 306,
data sources, 350-351	327–332
defined, 348–349	Average Frequency, 305, 311
Media Interaction Time, 351	CPM, 304
purpose of, 349	Effective Frequency, 306, 323–325
related metrics/concepts, 351	Effective Reach, 305, 323–325
rich media, 349 Video Interactions, 351	Equivalent Media Value from Sponsorship, 306, 334–336
Media Exposure Return on Marketing	Frequency Response Functions, 305, 318–323
Investment, 395–396	GRP, 304, 307–312
Media Interaction Rate, 342	Impressions, 304, 307-312, 345-348, 352
cautions, 350–351	Net Reach, 305, 314–318
complications, 350–351	ROAS, 306, 332–334
construction, 350	Share of Voice, 306, 325-327
data sources, 350–351	Sponsorship ROI, 306, 336–339
defined, 348–349	Average Price per Unit, 69
Media Interaction Time, 351	construction, 89
purpose of, 349	data sources, 92
related metrics/concepts, 351	defined, 87–88
rich media, 349	purpose of, 88–89
Video Interactions, 351	SKU, 88–89
Media Interaction Time, 351	Awareness, 22, 45–46
metrics, 433–434	BDI, 20, 31
AAU. 44	complications, 33
Ad Awareness, 46	construction, 32
Attitudes, 46	data sources, 33
Awareness, 45–46	purpose of, 31
cautions, 47–48	Brand Penetration, 21
complications, 47–48	Break-Even Sales Level, 70
construction, 45–47	cautions, 107–108
customer/non-customer responses, 47–48	complications, 107–108
data sources, 47–48	construction, 105–107
framing/administering questions, 47	data sources, 107–108
Geo-clustering, 48–49	defined, 104
Knowledge, 46	earnings impact of marketing activity, 104
lagging indicators, 48	incremental investments, 107
leading indicators, 48	Payback Period, 108
purpose of, 44–45	purpose of, 104
Q scores, 48	related metrics/concepts, 108
related metrics/concepts, 48–49	Category Penetration, 21
Top of Mind, 22, 46	CDI, 21, 31
triangulating customer data, 48	complications, 33
usage, 47	construction, 32
Ad Awareness, 22, 46	data sources, 33
Advertising and Sponsorship metrics, 15–16,	purpose of, 31
303–304	related metrics/concepts, 33
	*

Channel Management metrics, 15, 207	Average Relention Cost, 102, 182–184
% of Organic Sites Stocking the Brand, 210	Customer Lifetime Value, 161, 172–181
ACV, 208, 210–213, 216–217	Customer Profit, 160, 167–172
Advocacy, 210, 233	Customers metric, 160, 162–167
Category Performance Ratio, 208	Prospect Lifetime Value, 161, 178–181
Channel Dependencies, 231–233	Recency, 160, 162–167
Clicks to Product, 209	Retention Rate, 160, 162–167
DPP, 209, 223–227	Customer Satisfaction, 23, 49
GMROII, 209, 223–227	construction, 50–51
Inventories, 209, 217–223	data sources, 51–52
Markdowns, 209, 223–227	Number of Complaints, 52
Numeric Distribution, 208, 210–212	purpose of, 49–50
Online Distribution metrics, 228–229	related metrics/concepts, 52
Out-of-Stock, 208, 217-223	Trade Satisfaction, 52
PCV, 208, 213–217, 219	dashboard (portfolio) of metrics, 3
Search and Distribution metrics, 230–231	data availability, 3
Total Distribution, 208	decomposing metrics, 424-426
Channel Margins, 69	Decomposition of Market Share, 21
Average Margins, 84–87	defined, 1
calculating prices at distribution level, 78	difficult to measure metrics, estimating, 428
cautions, 82–83	EVA, 8–9
complications, 82–83	Hierarchy of Effects, 22, 44-49
construction, 79–80	Knowledge, 22, 46
data sources, 82–83	Likeability, 23
defined, 77	Loyalty, 23
First Channel Member's Selling Price, 80–82	Margin, 68
Hybrid (Mixed) Channel Margins, 83-84	cautions, 74–77
purpose of, 78	complications, 74–77
related metrics/concepts, 83–87	construction, 72–74
choosing the right numbers, 3	data sources, 74–77
concepts, 4	Gross Margin, 77
Consumer Beliefs, 22	margins as percentage of costs, 74–75
Contribution Margin, 70	markups or margins, 75–77
Contribution per Unit, 70	selling prices, 74
cautions, 107–108	Unit Margin versus, 71
complications, 107–108	units, defined, 71
construction, 105–107	various costs included, 77
data sources, 107–108	Margins and Profits metrics, 14, 67-68
defined, 104	Average Price per Unit, 69, 87–92
earnings impact of marketing activity, 104	Break-Even Sales Level, 70, 104–108
Payback Period, 108	Business Week, 67
purpose of, 104	Channel Margins, 69, 77–87
related metrics/concepts, 108	Contribution Margin, 70
Customer Lifetime Value, 8–9	Contribution per Unit, 70, 104–108
Customer Profitability metrics, 15, 159–160	Drucker, Peter, 67
Average Acquisition Cost, 161, 182–184	Margin, 68, 71–77

margins, defined, 71	time periods measured, signal-to-noise
Marketing Spending, 69, 99–103	ratios, 26
Price per Statistical Unit, 69, 87–92	Top of Mind, 22, 46
Target Revenues, 70, 108–111	Unit Market Share, 20, 24–25
Target Volume, 70, 108–111	Usage Index, 21, 40–44
Unit Margin, 68, 71–77	Wal-Mart, 19
Variable and Fixed Costs, 69, 93–99	Willingness to Recommend, 23, 49–52
Market Concentration, 29	Willingness to Search, 23, 55-56
market share, 19-20, 24	Marketing and Finance metrics, 16,
AAU, 44–49	377–378
Ad Awareness, 22, 46	EBITDA, 378, 380–382
Awareness, 22, 45–46	EVA, 378, 383–385
bias in reported shares, 26	IRR, 379, 386, 388–390
BDI, 20, 31–33	Market to Book Ratio, 379, 399–402
Brand Penetration, 21	MROI, 379, 390–396
Category Penetration, 21	Net Profit, 378, 380–382
CDI, 21, 31–33	NPV, 379, 386–390
cautions, 25–26	Payback, 379, 386–387, 389–390
complications, 25–26	PE ratios, 379, 399–402
construction, 24–25	ROI, 378, 382–383
Consumer Beliefs, 22	ROS, 378, 380–382
Customer Satisfaction, 23, 49–52	TSR, 379, 397–399
data parameters, 25–26	marketing metrics, 2
data sources, 25–26	Marketing Spending, 69
decomposing market share, 34–35	Advertising as a Percentage of Sales, 103
Decomposition of Market Share, 21	cautions, 102–103
defined, 19	commissioned sales costs, 101–102
Hierarchy of Effects, 22, 44–49	complications, 102–103
indicators of future changes in shares,	construction, 101–102
20–23	data sources, 102–103
Knowledge, 22, 46	defined, 99
Likeability, 23	Marketing as a Percentage of Sales, 103
Loyalty, 23	purpose of, 99–101
market definitions, 25	related metrics/concepts, 103
Net Promoter, 23, 53–55	Slotting Allowances, 103
Neuro-marketing Measures, 23, 57–63	mastering, 7
Penetration, 33–36	measuring data, 5
Penetration Share, 21	concepts, 4
Purchase Habits, 22	"source credibility," 4
Purchase Intentions, 22	translating concepts into metrics, 4
purpose of, 24	need for, 1–2
related metrics/concepts, 26	Net Promoter, 23, 53
Relative Market Share, 20, 27–30	cautions, 54–55
Revenue Market Share, 20, 25	complications, 54–55
Served Market, 26	construction, 53
Share of Requirements, 21, 36–40	data sources, 54–55

NPS, 53–55	Cross Elasticity, 268–278
purpose of, 53	Optimal Price, 237, 255–267
Neuro-marketing Measures, 23	Own Price Elasticity, 268–278
cautions, 63	Percent Good Value, 236, 242-248
complications, 63	Price Elasticity of Demand, 237,
construction, 57–61	248–255
data sources, 63	Price Premium, 236, 238–242
neuroscience and, 57–61	Reservation Price, 236, 242–248
purpose of, 57	Residual Elasticity, 237, 268–278
usage, 61–63	Product and Portfolio Management metrics, 14,
Online, Email, and Mobile metrics, 16, 341–342	113–114
Abandonment Rate, 344, 360–364	Brand Equity Metrics, 115, 140–148
Bounce Rate (website), 344, 364-367	CAGR, 115, 129–134
Clickthrough Rate, 342, 351-354	Cannibalization Rate, 115, 134–139
Cost per Click, 342, 355–360	Conjoint Utilities, 115, 149–154
Cost per Impression, 343, 355–360	Conjoint Utilities and Volume Projection, 116, 157–158
Cost per Order, 343, 355–360	Fair Share Draw, 115, 134–139
Downloads, 345, 370–372	Penetration, 114, 116–129
Email Clickthrough, 345, 374–376	Repeat Volume, 114, 116–129
Friends/Followers/Supporters, 344, 367–370	Segment Utilities, 116, 154–157
Likes, 344, 367–370	Trial, 114, 116–129
Media Display Time, 342, 348–351	Volume Projections, 114, 116–129
Media Interaction Rate, 342, 348–351	Year-on-Year Growth, 115, 129–134
Mobile Metrics, 345, 372–374	Profitability metrics, 223–227
Pageviews, 342, 345–348	Promotion metrics, 15, 279–280
Value of a Like, 344, 367–370	Baseline Sales, 281, 282–289
Visitors, 343, 360–364	Costs for Coupons and Rebates, 281, 290–293
Visits, 343, 360–364	Incremental Sales (Promotional Lift), 281,
Penetration, 33	282–289
Acceptors/Accepters, 36	Pass-Through, 282, 293–296
active customers, 35–36	Percent Sales on Deals, 281, 294
cautions, 35	Percentage Sales with Coupon, 281, 290-293
complications, 35	Price Waterfall, 282, 296–301
construction, 34	Redemption Rates, 281, 290-293
data sources, 35	Purchase Habits, 22
decomposing market share, 34–35	Purchase Intentions, 22
Ever-tried customers, 36	Relative Market Share, 20, 27
related metrics/concepts, 35–36	BCG Matrix, 27–28
Penetration Share, 21	cautions, 30
portfolio (dashboard) of metrics, 3	complications, 30
Price per Statistical Unit, 69, 89–92	construction, 28–29
data sources, 92	data sources, 30
defined, 87–88	Herfindahl Index, 29–30
SKU, 89	Market Concentration, 29
Pricing Strategy metrics, 15, 235–236	Market for Small Urban Cars example, 28–29
Competitor Reaction Elasticity, 268–278	-

Market Share Rank, 30	Unit Market Share, 20, 24–25
Market Share-Small Urban Cars example, 29	Usage Index, 21, 40–44
purpose of, 27–28	Wal-Mart, 19
related metrics/concepts, 29–30	Willingness to Recommend, 23, 49-52
Share of Category, 30	Willingness to Search, 23, 55-56
Three- (Four-) Firm Concentration Ratio, 29	Share of Requirements, 21, 36
Revenue Market Share, 20, 25	cautions, 38
ROI, 8-9	complications, 38
Sales Force Management metrics, 15, 185	construction, 37–38
Break-Even Number of Employees, 187	data sources, 38
Compensation, 186, 198–201	Double Jeopardy, 38
Sales Force Effectiveness, 186, 194–197	Number of Brands Purchased, 39
Sales Funnel, 187, 201–205	purpose of, 37
Sales Goal, 186, 190–194	related metrics/concepts, 39-40
Sales Pipeline, 187, 201–205	Repeat Rate, 39
Sales Potential Forecast, 186	Repurchase Rate, 39
Workload, 186–190	retention rates, 39–40
Served Market, 26	Solo Usage Percentages, 39
Share of Category, Relative Market Share, 30	SKU Profitability metrics, 223-227
Share of Hearts, Minds, and Markets metrics, 14	sponsorship metrics, 9
AAU, 44–49	Target Revenues, 70
Ad Awareness, 22, 46	cautions, 110
Awareness, 22, 45–46	complications, 110
BDI, 20, 31–33	construction, 109–110
Brand Penetration, 21	data sources, 110
Category Penetration, 21	defined, 108
CDI, 21, 31–33	purpose of, 109
Consumer Beliefs, 22	related metrics/concepts, 110–111
Customer Satisfaction, 23, 49–52	Target Volume, 70
Decomposition of Market Share, 21	cautions, 110
Hierarchy of Effects, 22, 44–49	complications, 110
indicators of future changes in shares, 20–23	construction, 109–110
Knowledge, 22, 46	data sources, 110
Likeability, 23	defined, 108
Loyalty, 23	purpose of, 109
market share, 19–20, 24–26	related metrics/concepts, 110–111
Net Promoter, 23, 53–55	Top of Mind, 22, 46
Neuro-marketing Measures, 23, 57-63	"Top Ten" metrics, 7–9
Penetration, 33–36	Unit Margin, 68
Penetration Share, 21	cautions, 74–77
Purchase Habits, 22	complications, 74–77
Purchase Intentions, 22	construction, 72–74
Relative Market Share, 20, 27–30	data sources, 74–77
Revenue Market Share, 20, 25	defined, 71
Share of Requirements, 21, 36–40	Gross Margin, 77
<i>Top of Mind</i> , 22, 46	Margin versus, 71

margins as percentage of costs, 74–75	cautions, 3/3–3/4
markups or margins, 75–77	complications, 373-374
selling prices, 74	construction, 373
various costs included, 77	data sources, 373–374
Unit Market Share, 20, 24-25	defined, 372
Usage Index, 21, 40	Session Length, 373
cautions, 41	Store Visits, 373
complications, 41	modeling firm performance, 421-424
construction, 40–41	monitoring relationships between
data sources, 41	decisions/objectives, 429-432
Double Jeopardy, 41–44	motivating/evaluating, sales personnel, 191
purpose of, 40	MROI (Marketing Return on Investment), 379
related metrics/concepts, 44	cautions, 394–395
value of information, 5–7	complications, 394–395
Variable and Fixed Costs, 69	construction, 391–394
classification of costs depending on context, 98	data sources, 394–395
construction, 93–97	defined, 390–391
cost changes with volume, 93	Financial Value Attributable to Marketing, 392
data sources, 97–99	Media Exposure Return on Marketing
defined, 93	Investment, 395–396
linear cost models, 98	purpose of, 391
purpose of, 93	related metrics/concepts, 395–396
total cost per unit, 96–99	ROIMI, 392
Willingness to Recommend, 23	Multi-Period Investments
construction, 50–51	IRR, 386
data sources, 51–52	cautions, 389–390
Number of Complaints, 52	complications, 389–390
purpose of, 49–50	construction, 388–389
related metrics/concepts, 52	data sources, 389–390
Trade Satisfaction, 52	NPV, 386, 389
Willingness to Search, 23, 55	cautions, 389–390
cautions, 56	complications, 389–390
complications, 56	construction, 387–388 data sources, 389–390
construction, 56	
data sources, 56	spreadsheets, 390
purpose of, 55–56	Payback, 386
Middlemen, 294	cautions, 389–390
Millward Brown, BrandZ, 145-146	complications, 389–390
Misshipments, 222	construction, 386–387
Mixed Channel Margins. See Hybrid (Mixed Channel Margins)	data sources, 389–390 MWB (Maximum Willing to Buy), 246
mobile devices. See Online, Email, and Mobile	
metrics	N
Mobile Metrics, 345, 372	1 ¥
Active Users (Monthly/Daily), 373	Net Out-of-Stocks, 219
Average Revenue per User, 373	Net Price, 297–298

Net Profit, 378	response latencies (time delays), 61
cautions, 381	SCR, 61
complications, 381	newly acquired customers, lifetime value of,
construction, 380	178–179
data sources, 381	non-compensatory/compensatory consumer
defined, 380	decisions, 151–153
NOPAT, 382	NOPAT (Net Operating Profit After Tax), 382
purpose of, 378	NPS (Net Promoter Scores), Net Promoter, 53–55
related metrics/concepts, 382	NPV (Net Present Value), 379
Net Promoter, 23, 53	cautions, 389–390
cautions, 54–55	complications, 389–390
complications, 54–55	construction, 387–388
construction, 53	data sources, 389–390
data sources, 54–55	defined, 386, 389
NPS, 53–55	spreadsheets, 390
purpose of, 53	Number of Brands Purchased, Share of
Net Reach, 305, 314. See also Reach	Requirements, 39
cautions, 318	Number of Complaints
complications, 318	Customer Satisfaction, 52
data sources, 318	Willingness to Recommend, 52
defined, 316	Number of New Products, 129
overlap, 316–318	Numeric Distribution, 208
purpose of, 314–318	Breadth of Distribution, 217
Venn diagrams, 316–317	cautions, 216
Neuro-marketing Measures, 23	complications, 216
cautions, 63	construction, 211–212
complications, 63	data sources, 216
construction, 57–61	defined, 210
data sources, 63	Facing, 216
neuroscience and, 57–61	Features in Store, 217
purpose of, 57	Inventory, 217
usage, 61–63	pull marketing, 211
Neuro-metrics, 64	purpose of, 211
neuroscience	push marketing, 211
EDA, 61	related metrics/concepts, 216-217
EEG, 58, 64	Share of Shelf, 216
EMG, 61	Store Versus Brand Measures, 216–217
eye tracking, 59–60, 64	
FACS, 59, 64	O
fMRI, 58, 64	objectives/decisions, monitoring relationships
GSR, 61	between, 429–432
heart rates, 61	Obsolescence, 223
IAT, 61	omni-channel marketing, 9-10, 228
Neuro-marketing Measures, 57–61	Online, Email, and Mobile metrics, 16, 341–342
Neuro-metrics, 64	Abandonment Rate, 344, 360
1 10010 111011105, 07	

cautions, 363	search engines, 358–360
Clickstreams, 361	Cost per Order, 343
complications, 363–364	Ad rank, 359
construction, 363	cautions, 357
Conversion Rate, 363	complications, 357
cookies, 364	construction, 356–357
data sources, 363–364	Cost per Customer Acquired, 357
defined, 363	data sources, 357
purpose of, 360–363	defined, 355
Bounce Rate (website), 344	purpose of, 355–356
cautions, 365–367	search engines, 358–360
complications, 365–367	Downloads, 345, 370-372
construction, 365	Email Clickthrough, 345
data sources, 365–367	Bounce Rate, 374, 375
defined, 364–365	cautions, 376–377
first-click attribution, 366–367	complications, 376–377
last-click attribution, 366–367	construction, 375
linear attribution, 366–367	CPE, 375
purpose of, 365	data sources, 376–377
Clickthrough Rate, 342	defined, 374
cautions, 353–354	Email Open Rate, 375
Clickthroughs, 352	Email Unsubscribe Rate, 375
complications, 353–354	purpose of, 374
construction, 352	Friends/Followers/Supporters, 344
data sources, 353–354	cautions, 368–370
defined, 351	complications, 368–370
purpose of, 352	construction, 368
Cost per Click, 342	Cost per Friend (Like), 368
Ad rank, 359	data sources, 368–370
cautions, 357	defined, 367
complications, 357	Engagement Rate, 370
construction, 356–357	Outcomes per Friend, 368
Cost per Customer Acquired, 357	purpose of, 367–368
data sources, 357	related metrics/concepts, 370
defined, 355	Likes, 344
purpose of, 355–356	cautions, 368–370
search engines, 358–360	complications, 368–370
Cost per Impression, 343	construction, 368
Ad rank, 359	Cost per Friend (Like), 368
cautions, 357	data sources, 368–370
complications, 357	defined, 367
construction, 356–357	Engagement Rate, 370
Cost per Customer Acquired, 357	Outcomes per Friend, 368
data sources, 357	purpose of, 367–368
defined, 355	related metrics/concepts, 370
purpose of, 355–356	retated men testeoneepis, 570

Media Display Time, 342	Engagemeni Kaie, 570
cautions, 350–351	Outcomes per Friend, 368
complications, 350–351	purpose of, 367–368
construction, 349	related metrics/concepts, 370
data sources, 350–351	Visitors, 343, 360
defined, 348–349	cautions, 363
Media Interaction Time, 351	Clickstreams, 361
purpose of, 349	complications, 363–364
related metrics/concepts, 351	construction, 363
rich media, 349	Conversion Rate, 363
Video Interactions, 351	cookies, 364
Media Interaction Rate, 342	data sources, 363–364
cautions, 350–351	defined, 363
complications, 350–351	purpose of, 360–363
construction, 350	Visits, 343, 360
data sources, 350–351	cautions, 363
defined, 348–349	Clickstreams, 361
Media Interaction Time, 351	complications, 363–364
purpose of, 349	construction, 363
related metrics/concepts, 351	Conversion Rate, 363
rich media, 349	cookies, 364
Video Interactions, 351	data sources, 363–364
Mobile Metrics, 345, 372	defined, 363
A .: II (M!.) 272	purpose of, 360–363
Active Users (Monthly/Daily), 373	purpose oj, 300–303
Active Users (Monthly/Daily), 3/3 Average Revenue per User, 373	online accessibility to product, Search and
* ***	1 1 0
Average Revenue per User, 373	online accessibility to product, Search and
Average Revenue per User, 373 cautions, 373–374	online accessibility to product, Search and Distribution metrics, 230
Average Revenue per User, 373 cautions, 373–374 complications, 373–374	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347 data sources, 347–348	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228 Rank of App in App Store, 229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347 data sources, 347–348 defined, 346	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228 Rank of App in App Store, 229 Rank of Brand/SKU, 229
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347 data sources, 347–348 defined, 346 Hits, 347	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228 Rank of App in App Store, 229 Rank of Brand/SKU, 229 SERP, 228 online resources, MASB, 10–11 Optimal Price, 237
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347 data sources, 347–348 defined, 346 Hits, 347 Value of a Like, 344	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228 Rank of App in App Store, 229 Rank of Brand/SKU, 229 SERP, 228 online resources, MASB, 10–11 Optimal Price, 237 cautions, 264, 267
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347 data sources, 347–348 defined, 346 Hits, 347 Value of a Like, 344 cautions, 368–370	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228 Rank of App in App Store, 229 Rank of Brand/SKU, 229 SERP, 228 online resources, MASB, 10–11 Optimal Price, 237 cautions, 264, 267 complications, 264
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347 data sources, 347–348 defined, 346 Hits, 347 Value of a Like, 344 cautions, 368–370 complications, 368–370	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228 Rank of App in App Store, 229 Rank of Brand/SKU, 229 SERP, 228 online resources, MASB, 10–11 Optimal Price, 237 cautions, 264, 267 complications, 264 construction, 256–264
Average Revenue per User, 373 cautions, 373–374 complications, 373–374 construction, 373 data sources, 373–374 defined, 372 Session Length, 373 Store Visits, 373 Pageviews, 342, 346–347 cautions, 347–348 complications, 347–348 construction, 347 data sources, 347–348 defined, 346 Hits, 347 Value of a Like, 344 cautions, 368–370 complications, 368–370 construction, 368	online accessibility to product, Search and Distribution metrics, 230 Online Distribution metrics above the fold, 228–229 Brand on Landing Page, 229 cautions, 229 Clicks to Product, 229 complications, 229 construction, 228–229 data sources, 229 defined, 228 purpose of, 228 Rank of App in App Store, 229 Rank of Brand/SKU, 229 SERP, 228 online resources, MASB, 10–11 Optimal Price, 237 cautions, 264, 267 complications, 264

Linear Demand, 256–264	P
Optimal Price Relative to Gross Margin, 262–264	Pageviews, 342, 346–347
Price Tailoring (Price Discrimination), 264–267	cautions, 347–348
purpose of, 256	complications, 347–348
regulations, 267	construction, 347
related metrics/concepts, 264-267	data sources, 347-348
Robinson-Patman Act, 267	defined, 346
OTS (Opportunities-To-See), 307	Hits, 347
defined, 308	paid search marketing, search engines, 358
purpose of, 307–308	Pass-Through, 282, 293-294
Outcomes per Friend, 368	cautions, 295–296
Out-of-Stock, 208	complications, 295-296
cautions, 221–222	construction, 294
complications, 221–222	data sources, 295-296
construction, 218-221	defined, 294
Consumer Off-Take, 223	purpose of, 294
data sources, 221-222	Payback, 379
Deductions, 223	cautions, 389–390
defined, 217	complications, 389-390
Diverted Merchandise/Goods, 223	construction, 386–387
FIFO, 222	data sources, 389-390
Inventory Days, 220–221	defined, 386
Inventory Turns, 219–220	purpose of, 386
LIFO, 222	Payback Period
Misshipments, 222	Break-Even Sales Level, 108
Net Out-of-Stocks, 219	Contribution per Unit, 108
Obsolescence, 223	PCV (Product Category Volume), 208
Percentage On-Time Delivery, 219	Breadth of Distribution, 217
Pipeline Sales, 223	Category Performance Ratio, 215–216
purpose of, 218	cautions, 216
Rain Checks/Make-Goods on	complications, 216
Promotions, 222	construction, 213–216
related metrics/concepts, 222–223	data sources, 216
service levels, 219	defined, 210
Shrinkage, 223	Facing, 216
outputs, linear cost models, 98	Features in Store, 217
overlap, Net Reach, 316–318	Inventory, 217
overservicing, 188	Net Out-of-Stocks, 219
Own Price Elasticity, 268	pull marketing, 211
cautions, 272	purpose of, 211
complications, 272	push marketing, 211
construction, 270–271	related metrics/concepts, 216-217
data sources, 272	Share of Shelf, 216
prisoner's dilemma pricing, 272–278	Store Versus Brand Measures, 216–217
purpose of, 268–270	Total Distribution, 215

Index 475

PE rauos, 3/9, 399	Price-Quantity Relationship, 243–244
cautions, 402	purpose of, 242
complications, 402	second-price auctions, 244
construction, 400-402	Percent Sales on Deals, 281
data sources, 402	Percentage (%), 16
purpose of, 400	Percentage of Organic Sites Stocking the
Percentage On-Time Delivery, 219	Brand, 210
Penetration, 33, 114	Percentage Margins. See Margins
Acceptors/Accepters, 36	percentage points, 133
active customers, 35–36	Percentage Sales on Deal, 294
cautions, 35, 124-128	Percentage Sales with Coupon, 281
Company Profit from New Products, 129	breakage, 292
complications, 35, 124–128	cautions, 292
construction, 34, 117–118	complications, 292
data sources, 35, 124-128	construction, 291–292
decomposing market share, 34-35	data sources, 292
defined, 116	defined, 290
Discounted Trial, 128–129	mail-in rebates, 292-293
distribution, 119–121	purpose of, 291
Ever-Tried, 128	related metrics/concepts, 292-293
Ever-tried customers, 36	Total Coupon Cost, 291
Evoked Set, 129	performance
Forced Trial, 128	assessing with marketing metrics x-rays
lack of awareness, sales projection models, 118–119	Big Tobacco Company scenario, 409–412
Margin on New Products, 129	comparing firms on customer metrics,
Number of New Products, 129	405–406
purpose of, 116–117	customer attitudes/awareness of two firms,
related metrics/concepts, 35–36, 128–129	405–406
Repeat Volume, 121–122	customer profitability of two firms, 405
Revenue from New Products, 129	grandparent's savings scenario, 403–406
Target Market Fit, 129	Prestige Luggage scenario, 407–409
Total Volume, 122–124	firm performance
Trial Rate, 117	comparing firms on customer metrics, 405–406
Trial Volume, 118	
Variations on Trial, 128	customer attitudes/awareness of two firms, 405–406
Penetration Share, 21	customer profitability of two firms, 405
Percent Good Value, 236, 242	Dupont Model, The, 421–423
Conjoint Analysis, 244	modeling, 421–424
construction, 243–244	profit margins, 421
data sources, 244	return on sales, 421
defined, 243	
demand schedules (curves), 244	measuring Sales Force Effectiveness, 194
Linear Demand, 245–248	performance monitoring in attracting/retaining customers, 162
Maximum Reservation Price, 246	Pipeline Sales, 223
MWB, 246	PLA (Product Listing Ads), 230–231
111 11 11, 270	I Dri (I I toutet Disting rus), 250–251

portfolio (dashboard) of metrics, 3	Net Price, 297–298
Post-Purchase phase, Sales Pipeline, 203-204	Price Discrimination (Price Tailoring),
Pre-Purchase stage, Sales Pipeline, 203	300–301
Prestige Luggage scenario (performance	purpose of, 296–297
assessments), 407–409	related metrics/concepts, 299-301
Price Discrimination (Price Tailoring), 300–301	Price-Quantity Relationship, 243–244
Price Elasticity of Demand, 237, 248	prices
cautions, 255	calculating at distribution level, 78
complications, 255	First Channel Member's Selling Price, 80-82
Constant Elasticity, 252–255	Pricing Strategy metrics, 15, 235–236
construction, 249–252	Competitor Reaction Elasticity, 268
data sources, 255	cautions, 272
defined, 249	complications, 272
demand schedules (curves), 252-255	construction, 270–271
purpose of, 237	data sources, 272
Price of a Specified Competitor, 239	prisoner's dilemma pricing, 272–278
Price per Statistical Unit, 69, 89-92	purpose of, 268–270
data sources, 92	Cross Elasticity, 268
defined, 87–88	cautions, 272
SKU, 89	complications, 272
Price Premium, 236	construction, 270–271
Average Price Charged, 240	data sources, 272
Average Price Displayed, 240–241	prisoner's dilemma pricing, 272–278
Average Price Paid, 239	purpose of, 268–270
cautions, 241–242	Optimal Price, 237
complications, 241–242	cautions, 264, 267
construction, 238–241	complications, 264
data sources, 241–242	construction, 256–264
defined, 238	data sources, 264
Price of a Specified Competitor, 239	defined, 255
purpose of, 238	Linear Demand, 256–264
related metrics/concepts, 242	Price Tailoring (Price Discrimination),
Theoretical Price Premium, 242	264–267
Price Tailoring (Price Discrimination), 264–267	purpose of, 256
Price to Book ratio, 401	regulations, 267
Price Waterfall, 282, 296	related metrics/concepts, 264–267
cautions, 298–299, 301	Robinson-Patman Act, 267
complications, 298–299	Optimal Price Relative to Gross Margin,
construction, 297–298	262–264
data sources, 298–299	Own Price Elasticity, 268
Deductions, 299	cautions, 272
defined, 297	complications, 272
EDLP, 299	construction, 270–271
HI-LO, 300	data sources, 272
Invoice Price, 297	prisoner's dilemma pricing, 272–278
List Price, 297	purpose of, 268–270

Percent Good Value, 236, 242	Residual Elasticity, 237, 268
Conjoint Analysis, 244	cautions, 272
construction, 243–244	complications, 272
data sources, 244	construction, 270–271
defined, 243	data sources, 272
demand schedules (curves), 244	prisoner's dilemma pricing,
Linear Demand, 245–248	272–278
Maximum Reservation Price, 246	purpose of, 268–270
MWB, 246	prisoner's dilemma pricing, 272–278
Price-Quantity Relationship, 243-244	Product and Portfolio Management metrics
purpose of, 242	14, 113–114  Promise Facility Matrice, 115
second-price auctions, 244	Brand Equity Metrics, 115
Price Elasticity of Demand, 237, 248	brand equity, 141–142
cautions, 255	Brand Equity 10, 142–143
complications, 255	Brand Evaluation Model, 146–147
Constant Elasticity, 252–255	Brand Finance, 144–145
construction, 249–252	Brand Identity, 148
data sources, 255	Brand Image, 148
defined, 249	Brand Position, 148
demand schedules (curves), 252-255	brand ratings, 144–145
purpose of, 237	brand value, 140–142
Price Premium, 236	BrandAsset® Valuator, 142–144
Average Price Charged, 240	BrandZ, 145–146
Average Price Displayed, 240–241	cautions, 148
Average Price Paid, 239	complications, 148
cautions, 241–242	Conjoint Analysis, 147
complications, 241–242	construction, 142–147
construction, 238–241	data sources, 148
data sources, 241–242	defined, 140
defined, 238	Product Differentiation, 148
Price of a Specified Competitor, 239	purpose of, 140–142
purpose of, 238	Ramsellar, 144
related metrics/concepts, 242	related metrics/concepts, 148
Theoretical Price Premium, 242	"Royalty Relief," 144
Reservation Price, 236, 242	CAGR, 115
Conjoint Analysis, 244	basis points, 134
construction, 243–244	Compounding Growth, Value at Future
data sources, 244	Period, 132
defined, 243	construction, 130–133
demand schedules (curves), 244	data sources, 133–134
Linear Demand, 245–248	defined, 129
Maximum Reservation Price, 246	Life Cycles, 134
MWB, 246	measuring growth, 130
MWB, 240 Price-Quantity Relationship, 243–244	percentage points, 133
-	purpose of, 130
purpose of, 242 second-price auctions, 244	related metrics/concepts, 134
secona-mae anchoms, 244	

Cannibalization Rate, 115, 134–137	margin on New Products, 129
cautions, 138–139	Number of New Products, 129
complications, 138–139	purpose of, 116–117
data sources, 138–139	related metrics/concepts, 128–129
defined, 134	Repeat Volume, 121–122
Conjoint Utilities, 115	Revenue from New Products, 129
cautions, 153–154	Target Market Fit, 129
Choice Modeling, 150–151	Total Volume, 122–124
compensatory/non-compensatory consumer	Trial Rate, 117
decisions, 151–153	Trial Volume, 118
complications, 153–154	Variations on Trial, 128
Conjoint Analysis, 150–151	Repeat Volume, 114
construction, 150–153	cautions, 124–128
data sources, 153–154	Company Profit from New Products, 129
defined, 149	complications, 124–128
purpose of, 149–150	construction, 117–118
relative consumer preferences for product	data sources, 124–128
attributes, 149–150	defined, 116
Conjoint Utilities and Volume	Discounted Trial, 128–129
Projection, 116	distribution, 119–121
cautions, 157–158	Ever-Tried, 128
complications, 157–158	Evoked Set, 129
data sources, 157–158	Forced Trial, 128
defined, 157 market share projections, 157	lack of awareness, sales projection models, 118–119
purpose of, 157	Margin on New Products, 129
sales volume projections, 157	Number of New Products, 129  Number of New Products, 129
Fair Share Draw, 115, 137–138	purpose of, 116–117
cautions, 138–139	related metrics/concepts, 128–129
complications, 138–139	Repeat Volume, 121–122
data sources, 138–139	_
defined, 134	Revenue from New Products, 129
Penetration, 114	Target Market Fit, 129
cautions, 124–128	Total Volume, 122–124 Trial Rate, 117
Company Profit from New Products, 129	Trial Volume, 118
complications, 124–128	·
construction, 117–118	Variations on Trial, 128
data sources, 124–128	Segment Utilities, 116
defined, 116	cautions, 156–157
Discounted Trial, 128–129	Cluster Analysis, 155–156
distribution, 119–121	complications, 156–157
Ever-Tried, 128	construction, 155–156
Evoked Set, 129	data sources, 156–157
Forced Trial, 128	defined, 154
lack of awareness, sales projection models,	purpose of, 154–155
118–119	segment identification based on conjoint utilities, 154–155

**Index** 479

TD:2-1 114	T Ml + E'+ 120
Trial, 114	Target Market Fit, 129
cautions, 124–128	Total Volume, 122–124
Company Profit from New Products, 129	Trial Rate, 117
complications, 124–128	Trial Volume, 118
construction, 117–118	Variations on Trial, 128
data sources, 124–128	Year-on-Year Growth, 115
defined, 116	basis points, 134
Discounted Trial, 128–129	Compounding Growth, Value at Future
distribution, 119–121	Period, 132
Ever-Tried, 128	construction, 130–133
Evoked Set, 129	data sources, 133–134
Forced Trial, 128	defined, 129
lack of awareness, sales projection models,	Life Cycles, 134
118–119	measuring growth, 130
Margin on New Products, 129	percentage points, 133
Number of New Products, 129	purpose of, 130
purpose of, 116–117	related metrics/concepts, 134
related metrics/concepts, 128–129	product attributes, relative consumer preferences
Repeat Volume, 121–122	for, 149–150
Revenue from New Products, 129	Product Category Volume. See PCV
Target Market Fit, 129	Product Differentiation, 148
Total Volume, 122–124	profit margins, 421
Trial Rate, 117	Profitability metrics, 223–227
Trial Volume, 118	profitability of individual customers, 167-168
Variations on Trial, 128	Promotion metrics, 15, 279–280
•	Baseline Sales, 281
Volume Projections 114	
Volume Projections, 114	•
cautions, 124–128	cautions, 288–289
cautions, 124–128 Company Profit from New Products, 129	cautions, 288–289 complications, 288–289
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128	cautions, 288–289 complications, 288–289 construction, 283–288
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models,	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models, 118–119	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292 data sources, 292
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models, 118–119 Margin on New Products, 129	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292 data sources, 292 defined, 290
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models, 118–119 Margin on New Products, 129 Number of New Products, 129	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292 data sources, 292 defined, 290 mail-in rebates, 292–293
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models, 118–119 Margin on New Products, 129 Number of New Products, 129 purpose of, 116–117	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292 data sources, 292 defined, 290 mail-in rebates, 292–293 purpose of, 291
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models, 118–119 Margin on New Products, 129 Number of New Products, 129	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292 data sources, 292 defined, 290 mail-in rebates, 292–293
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models, 118–119 Margin on New Products, 129 Number of New Products, 129 purpose of, 116–117 related metrics/concepts, 128–129 Repeat Volume, 121–122	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292 data sources, 292 defined, 290 mail-in rebates, 292–293 purpose of, 291
cautions, 124–128 Company Profit from New Products, 129 complications, 124–128 construction, 117–118 data sources, 124–128 defined, 116 Discounted Trial, 128–129 distribution, 119–121 Ever-Tried, 128 Evoked Set, 129 Forced Trial, 128 lack of awareness, sales projection models, 118–119 Margin on New Products, 129 Number of New Products, 129 purpose of, 116–117 related metrics/concepts, 128–129	cautions, 288–289 complications, 288–289 construction, 283–288 data sources, 288–289 defined, 282–283 long-term effects of promotions, 289 purpose of, 283 Costs for Coupons and Rebates, 281 breakage, 292 cautions, 292 complications, 292 construction, 291–292 data sources, 292 defined, 290 mail-in rebates, 292–293 purpose of, 291 related metrics/concepts, 292–293

complications, 288–289	data sources, 292
construction, 283–288	defined, 290
data sources, 288–289	mail-in rebates, 292–293
defined, 282–283	purpose of, 291
long-term effects of promotions, 289	related metrics/concepts, 292–293
purpose of, 283	Total Coupon Cost, 291
Pass-Through, 282, 293, 294	Promotional Lift (Incremental Sales), 281
cautions, 295–296	cautions, 288–289
complications, 295–296	complications, 288–289
construction, 294	construction, 283–288
data sources, 295–296	data sources, 288–289
defined, 294	defined, 282–283
purpose of, 294	long-term effects of promotions, 289
Percent Sales on Deals, 281, 294	purpose of, 283
Percentage Sales with Coupon, 281	promotions, Rain Checks/Make-Goods on
breakage, 292	Promotions, 222
cautions, 292	Prospect Lifetime Value, 161
complications, 292	construction, 179-180
construction, 291–292	data sources, 180-181
data sources, 292	defined, 178
defined, 290	newly acquired customers, lifetime value of,
mail-in rebates, 292–293	178–179
purpose of, 291	purpose of, 178–179
related metrics/concepts, 292–293	Prospects, Sales Pipeline, 203
Total Coupon Cost, 291	pull marketing, 211
Price Waterfall, 282, 296	Purchase Habits, 22
cautions, 298–299, 301	Purchase Intentions, 22
complications, 298–299	Purchase phase, Sales Pipeline, 203
construction, 297–298	push marketing, 211
data sources, 298–299	
Deductions, 299	
defined, 297	$\mathcal{Q}$
EDLP, 299	Q scores, Awareness, Attitudes and
HI-LO, 300	Usage (AAU), 48
Invoice Price, 297	
List Price, 297	D
Net Price, 297–298	R
Price Discrimination (Price Tailoring),	R (Rating), 17
300–301	Rain Checks/Make-Goods on Promotions, 222
purpose of, 296–297	Rank of App in App Store, 229
related metrics/concepts, 299–301	Rank of Brand/SKU, 229
Redemption Rates, 281	Rating (R), 17
breakage, 292	ratings points, 307
cautions, 292	Reach, 307, 311. See also Net Reach
complications, 292	defined, 315
construction, 291–292	Frequency and, 314–315

rebates	construction, 28–29
Costs for Coupons and Rebates, 281	data sources, 30
breakage, 292	Herfindahl Index, 29–30
cautions, 292	Market Concentration, 29
complications, 292	Market for Small Urban Cars example, 28-29
construction, 291–292	Market Share Rank, 30
data sources, 292	Market Share-Small Urban Cars example, 29
defined, 290	purpose of, 27–28
mail-in rebates, 292–293	related metrics/concepts, 29-30
purpose of, 291	Share of Category, 30
related metrics/concepts, 292–293	Three- (Four-) Firm Concentration Ratio, 29
Total Coupon Cost, 291	reliability testing, 414–415
mail-in rebates, 292–293	Repeat Rate, Share of Requirements, 39
Recency, 160, 162	Repeat Volume, 114, 121–122
attracting/retaining customers, performance	cautions, 124–128
monitoring, 162	Company Profit from New Products, 129
cautions, 165	complications, 124–128
complications, 165	construction, 117–118
construction, 162-165	data sources, 124-128
counting customers, 162-165	defined, 116
customers, 164	Discounted Trial, 128–129
data sources, 165	distribution, 119–121
defining properly, importance of, 165-167	Ever-Tried, 128
purpose of, 162	Evoked Set, 129
Redemption Rates, 281	Forced Trial, 128
breakage, 292	lack of awareness, sales projection models,
cautions, 292	118–119
complications, 292	Margin on New Products, 129
construction, 291–292	Number of New Products, 129
data sources, 292	purpose of, 116–117
defined, 290	related metrics/concepts, 128-129
mail-in rebates, 292-293	Repeat Volume, 121-122
purpose of, 291	Revenue from New Products, 129
related metrics/concepts, 292-293	Target Market Fit, 129
Total Coupon Cost, 291	Total Volume, 122–124
regulations	Trial Rate, 117
Optimal Price, 267	Trial Volume, 118
Price Waterfall, 301	Variations on Trial, 128
relationships between decisions/objectives,	Repurchase Rate, Share of Requirements, 39
monitoring, 429–432	Reservation Price, 236, 242
relative consumer preferences for product	Conjoint Analysis, 244
attributes, 149–150	construction, 243-244
Relative Market Share, 20, 27	data sources, 244
BCG Matrix, 27–28	defined, 243
cautions, 30	demand schedules (curves), 244
complications, 30	Linear Demand, 245–248

Maximum Reservation Price, 246	ROAS (Return on Advertising Spend), 306,
MWB, 246	332–334
Price-Quantity Relationship, 243-244	Robinson-Patman Act, 267
purpose of, 242	ROC (Return on Capital), 382–383
second-price auctions, 244	ROI (Return on Investment), 8–9, 378,
Residual Elasticity, 237, 268	382–383
cautions, 272	MROI, 379
complications, 272	cautions, 394–395
construction, 270–271	complications, 394–395
data sources, 272	construction, 391–394
prisoner's dilemma pricing, 272–278	data sources, 394–395
purpose of, 268–270	defined, 390–391
response bias, 52	Financial Value Attributable to Marketing, 392
response latencies (time delays), 61	Media Exposure Return on Marketing Investment, 395–396
retaining customers	purpose of, 391
counting customers, 164	related metrics/concepts, 395–396
performance monitoring, 162	ROIMI, 392
Retention Rate, 160, 162	Sponsorship ROI, 306, 336–339
attracting/retaining customers, performance monitoring, 162	ROIC (Return on Invested Capital), 382–383
cautions, 165	ROIMI (Return on Incremental Marketing Investment), 392
complications, 165	RONA (Return on Net Assets), 382–383
construction, 162–165	ROS (Return on Sales), 378, 380
counting customers, 162–165	cautions, 381
data sources, 165	complications, 381
defining properly, importance of, 165-167	construction, 381
purpose of, 162	data sources, 381
Share of Requirements, 39-40	
Return on Advertising Spend. See ROAS	NOPAT, 382
return on sales, 421	purpose of, 378
returns	related metrics/concepts, 382
Abnormal Returns, 397, 398–399	"Royalty Relief," 144
TSR, 379	
cautions, 399	S
complications, 399	
construction, 398	sales
data sources, 399	forecasting, Sales Pipeline, 201
defined, 397	return on sales, 421
Market Capitalization, 397	Sales Force Effectiveness, 186
purpose of, 397	cautions, 197
Revenue from New Products, 129	complications, 197
Revenue Market Share, 20, 25	construction, 195–197
rewarding customers, 167	data sources, 197
rich media, 349	defined, 194
RMOI. See also MROI, 390, 391	performance, measuring, 194
ROA (Return on Assets), 382–383	purpose of, 194
- (,,	

Calas Fanas Managament matrice 15 105	data sources, 204–205
Sales Force Management metrics, 15, 185	·
Break-Even Number of Employees, 187	defined, 201
Compensation, 186, 199–200	forecasting sales, 201
cautions, 200–201	interest creation, 202
complications, 200–201	Post-Purchase phase, 203–204
data sources, 200–201	Pre-Purchase stage, 203
defined, 198	Purchase phase, 203
purpose of, 198–199	Warm Leads, 202
Sales Force Effectiveness, 186	workload distribution, 201 Sales Potential Forecast, 186
cautions, 197	Workload, 186
complications, 197	,
construction, 195–197	balanced territories, effects of, 188–189
data sources, 197	buying power, 189
defined, 194	cautions, 190
measuring performance, 194	comparing territories, 189–190
purpose of, 194	complications, 190
Sales Funnel, 187, 201, 203	construction, 188–190
cautions, 204–205	data sources, 190
Cold Leads, 202	defined, 187–188
complications, 204–205	overservicing, 188
construction, 202–204	under-servicing, 187–188
data sources, 204–205	territories, 187
defined, 201	unbalanced territories, 188
forecasting sales, 201	Sales Funnel, 187, 203
interest creation, 202	cautions, 204–205
Post-Purchase phase, 203–204	Cold Leads, 202
Pre-Purchase stage, 203	complications, 204–205
Purchase phase, 203	construction, 202–204
Warm Leads, 202	data sources, 204–205
workload distribution, 201	defined, 201
Sales Goal, 186	forecasting sales, 201
cautions, 193–194	interest creation, 202
complications, 193–194	Post-Purchase phase, 203–204
construction, 192–193	Pre-Purchase stage, 203
data sources, 193–194	Purchase phase, 203
defined, 190–191	purpose of, 201
districts, 192–193	Warm Leads, 202
Forecasted Sales Increase for District, 192	workload distribution, 201
motivating/evaluating, 191	Sales Goal, 186
purpose of, 191	cautions, 193–194
Weighted Share of Sales Allotment, 192	complications, 193–194
Sales Pipeline, 187, 201, 203	construction, 192–193
cautions, 204–205	data sources, 193-194
Cold Leads, 202	defined, 190–191
complications, 204–205	districts, 192–193
construction, 202–204	Forecasted Sales Increase for District(\$), 192

purpose of, 191	Segment Utilities, 116
sales personnel, motivating/evaluating, 191	cautions, 156–157
Weighted Share of Sales Allotment, 192	Cluster Analysis, 155–156
sales personnel, motivating/evaluating, 191	complications, 156–157
Sales Pipeline, 187, 201, 203	construction, 155-156
cautions, 204–205	data sources, 156-157
Cold Leads, 202	defined, 154
complications, 204–205	purpose of, 154–155
construction, 202-204	segment identification based on conjoint utilities
data sources, 204–205	154–155
defined, 201	SERP (Search Engine Results Page), 228
forecasting sales, 201	Served Market, 26
interest creation, 202	service levels, Supply Chain metrics, 219
Post-Purchase phase, 203–204	Session Length, 373
Pre-Purchase stage, 203	Sessions (Google Analytics), 363
Purchase phase, 203	Shames, Erv, 409
Warm Leads, 202	Share of Category, Relative Market Share, 30
workload distribution, 201	Share of Hearts, Minds, and Markets metrics, 14
Sales Potential Forecast, 186	AAU, 44
sales projection models, lack of awareness, 118–119	Ad Awareness, 46
sales volume projections, 157	Attitudes, 46
Same Stores Growth, 129	Awareness, 45–46
SASB (Sustainability Accounting Standards	cautions, 47–48
Board), 11	complications, 47–48
SCR (Skin Conductance Response), 61	construction, 45–47
Search and Distribution metrics	customer/non-customer responses, 47–48
cautions, 231	data sources, 47–48
complications, 231	framing/administering questions, 47
construction, 230–231	Geo-clustering, 48–49
data sources, 231	Knowledge, 46
defined, 230	lagging indicators, 48
online accessibility to product, 230	leading indicators, 48
PLA, 230–231	purpose of, 44–45
purpose of, 230	Q scores, 48
sponsored sites, 231	related metrics/concepts, 48–49
search engines, 358	Top of Mind, 22, 46
Ad rank, 359	triangulating customer data, 48
Cost per Click, 358–359	usage, 47
marketing, 358	Ad Awareness, 22, 46
optimization, 359-360	Awareness, 22, 45–46
paid search marketing, 358	BDI, 20, 31
search engines, SERP, 228	complications, 33
second-price auctions, 244	construction, 32
second-tier customers, 168	data sources, 33
segment identification based on conjoint utilities,	purpose of, 31
154–155	Brand Penetration, 21

Category Penetration, 21	Ever-iriea cusiomers, 50
CDI, 21, 31	related metrics/concepts, 35–36
complications, 33	Penetration Share, 21
construction, 32	Purchase Habits, 22
data sources, 33	Purchase Intentions, 22
purpose of, 31	Relative Market Share, 20, 27
related metrics/concepts, 33	BCG Matrix, 27–28
Consumer Beliefs, 22	cautions, 30
Customer Satisfaction, 23, 49	complications, 30
construction, 50–51	construction, 28–29
data sources, 51–52	data sources, 30
Number of Complaints, 52	Herfindahl Index, 29–30
purpose of, 49–50	Market Concentration, 29
related metrics/concepts, 52 Trade Satisfaction, 52	Market for Small Urban Cars example, 28–29
Decomposition of Market Share, 21	Market Share Rank, 30
Hierarchy of Effects, 22, 44–49	Market Share-Small Urban Cars example, 29
indicators of future changes in shares,	purpose of, 27–28
20–23	related metrics/concepts, 29–30
Knowledge, 22, 46	Share of Category, 30
Likeability, 23	Three- (Four-) Firm Concentration
Loyalty, 23	Ratio, 29
market share, 19–20, 24–26	Revenue Market Share, 20, 25
Net Promoter, 23, 53	Share of Requirements, 21, 36
cautions, 54–55	cautions, 38
complications, 54–55	complications, 38
construction, 53	construction, 37–38
data sources, 54–55	data sources, 38
NPS, 53–55	Double Jeopardy, 38
purpose of, 53	Number of Brands Purchased, 39
Neuro-marketing Measures, 23	purpose of, 37
cautions, 63	related metrics/concepts, 39–40
complications, 63	Repeat Rate, 39
construction, 57–61	Repurchase Rate, 39
data sources, 63	retention rates, 39–40
neuroscience and, 57–61	Solo Usage Percentages, 39
purpose of, 57	Top of Mind, 22, 46
usage, 61–63	Unit Market Share, 20, 24-25
Penetration, 33	Usage Index, 21, 40
Acceptors/Accepters, 36	cautions, 41
active customers, 35–36	complications, 41
cautions, 35	construction, 40–41
complications, 35	data sources, 41
construction, 34	Double Jeopardy, 41–44
data sources, 35	purpose of, 40
decomposing market share, 34–35	related metrics/concepts, 44

Wal-Mart, 19	Social Media metrics
Willingness to Recommend, 23	Friends/Followers/Supporters
construction, 50–51	cautions, 368–370
data sources, 51–52	complications, 368–370
Number of Complaints, 52	construction, 368
purpose of, 49–50	Cost per Friend (Like), 368
related metrics/concepts, 52	data sources, 368–370
Trade Satisfaction, 52	defined, 367
Willingness to Search, 23, 55	Engagement Rate, 370
cautions, 56	Outcomes per Friend, 368
complications, 56	purpose of, 367–368
construction, 56	related metrics/concepts, 370
data sources, 56	Likes
purpose of, 55–56	cautions, 368–370
Share of Requirements, 21, 36	complications, 368–370
cautions, 38	construction, 368
complications, 38	Cost per Friend (Like), 368
construction, 37–38	data sources, 368–370
data sources, 38	defined, 367
Double Jeopardy, 38	Engagement Rate, 370
Number of Brands Purchased, 39	Outcomes per Friend, 368
purpose of, 37	purpose of, 367–368
related metrics/concepts, 39-40	related metrics/concepts, 370
Repeat Rate, 39	Value of a Like
Repurchase Rate, 39	cautions, 368–370
retention rates, 39–40	complications, 368–370
Solo Usage Percentages, 39	construction, 368
Share of Shelf, 216	Cost per Friend (Like), 368
Share of Voice, 306, 325	data sources, 368–370
cautions, 326–327	defined, 367
complications, 326–327	Engagement Rate, 370
construction, 326	Outcomes per Friend, 368
data sources, 326-327	purpose of, 367–368
defined, 326	related metrics/concepts, 370
purpose of, 326	Solo Usage Percentages, Share of Requirements, 39
Shopping Basket Margin, 227	"source credibility," 4
showrooming, 232	sponsored sites, 231
Shrinkage, 223	Sponsorship metrics, 9, 334. See also Advertising
side-by-side A/B testing, 415	and Sponsorship
signal-to-noise ratios, market share, 26	Sponsorship ROI, 306, 336–339
SKU (Stock Keeping Units)	Store Versus Brand Measures, 216–217
Average Price per Unit, 88–89	Store Visits, 373
Price per Statistical Unit, 89	Supply Chain metrics
Rank of Brand/SKU, 229	Inventories
SKU Profitability metrics, 223–227	cautions, 221–222
Slotting Allowances, 103	complications, 221–222

construction, 218–221	law of large (and not-so-large) numbers, 426–428
Consumer Off-Take, 223	Marketing Mix Models, 429–432
data sources, 221–222	related metrics/concepts, 433
Deductions, 223	relationships between decisions/objectives,
defined, 217	monitoring, 429–432
Diverted Merchandise/Goods, 223	
FIFO, 222	T
Inventory Days, 220–221	I
Inventory Turns, 219–220	Target Market Fit, 129
LIFO, 222	Target Revenues, 70
Misshipments, 222	cautions, 110
Net Out-of-Stocks, 219	complications, 110
Obsolescence, 223	construction, 109-110
Percentage On-Time Delivery, 219	data sources, 110
Pipeline Sales, 223	defined, 108
purpose of, 218	purpose of, 109
Rain Checks/Make-Goods on Promotions, 222	related metrics/concepts, 110-111
related metrics/concepts, 218	Target Volume, 70
service levels, 219	cautions, 110
Shrinkage, 223	complications, 110
Out-of-Stock	construction, 109–110
cautions, 221–222	data sources, 110
complications, 221–222	defined, 108
construction, 218–221	purpose of, 109
Consumer Off-Take, 223	related metrics/concepts, 110-111
data sources, 221–222	territories
Deductions, 223	balanced territories, effects of, 188-189
defined, 217	comparing, 189-190
Diverted Merchandise/Goods, 223	unbalanced territories, 188
FIFO, 222	Workload, 187
Inventory Days, 220–221	testing, 415
Inventory Turns, 219–220	A/B testing, 415
LIFO, 222	advertising, 416–418
Misshipments, 222	reliability testing, 414–415
Net Out-of-Stocks, 219	value of information, 6
Obsolescence, 223	Theoretical Price Premium, 242
Percentage On-Time Delivery, 219	third-tier customers, 168
Pipeline Sales, 223	Three- (Four-) Firm Concentration Ratio, 29
purpose of, 218	Threshold function, 305
Rain Checks/Make-Goods on Promotions, 222	Threshold Response, 319-322
related metrics/concepts, 218	tiers of customers, 167–168
service levels, 219	time delays (response latencies), 61
Shrinkage, 223	Tobin's q, 401
systems of identities, 424–425	Top of Mind, 22, 46
decomposing metrics, 424-426	"Top Ten" metrics, 7–9
difficult to measure metrics, estimating, 428	top-tier customers, 167

total cost per unit, Variable and Fixed Costs,	defined, 397
96–97, 98–99 Total Courses Cost. 201	Market Capitalization, 397
Total Coupon Cost, 291	purpose of, 397
Total Distribution, 208, 215	
total ratings, 307	U
Total Volume, 122–124	U
Trade Satisfaction	unbalanced territories, 188
Customer Satisfaction, 52	under-servicing, 187-188
Willingness to Recommend, 52	Unit Margin, 68
Trial, 114	cautions, 74–77
cautions, 124–128	complications, 74-77
Company Profit from New Products, 129	construction, 72–74
complications, 124–128	data sources, 74-77
construction, 117–118	defined, 71
data sources, 124–128	Gross Margin, 77
defined, 116	Margin versus, 71
Discounted Trial, 128–129	margins as percentage of costs, 74–75
distribution, 119–121	markups or margins, 75–77
Ever-Tried, 128	selling prices, 74
Evoked Set, 129	various costs included, 77
Forced Trial, 128	Unit Market Share, 20, 24–25
lack of awareness, sales projection models, 118–119	Usage Index, 21, 40
Margin on New Products, 129	cautions, 41
Number of New Products, 129	complications, 41
purpose of, 116–117	construction, 40–41
related metrics/concepts, 128–129	data sources, 41
Repeat Volume, 121–122	Double Jeopardy, 41–44
Revenue from New Products, 129	purpose of, 40
Target Market Fit, 129	related metrics/concepts, 44
Total Volume, 122–124	
Trial Rate, 117	V
Trial Volume, 118	V
Variations on Trial, 128	valuation versus evaluation, 142
Trial Rate, 117	Value of a Like, 344
Trial Volume, 118	cautions, 368-370
triangulating customer data, AAU, 48	complications, 368-370
triers	construction, 368
defined, 116–117	Cost per Friend (Like), 368
First-Time Triers in Period T, 117	data sources, 368-370
TRP (Target Ratings Points), 309–311	defined, 367
TSR (Total Shareholder Returns), 379	Engagement Rate, 370
cautions, 399	Outcomes per Friend, 368
complications, 399	purpose of, 367–368
construction, 398	related metrics/concepts, 370
data sources, 399	value of information, 5-7, 412-414
ana 3041003, 377	

van den Berg, Sjef	complications, 124–128
concepts, 4	construction, 117–118
"source credibility," 4	data sources, 124-128
Variable and Fixed Costs, 69	defined, 116
classification of costs depending on context, 98	Discounted Trial, 128-129
construction, 93–97	distribution, 119-121
cost changes with volume, 93	Ever-Tried, 128
data sources, 97–99	Evoked Set, 129
defined, 93	Forced Trial, 128
linear cost models, 98	lack of awareness, sales projection models, 118–119
purpose of, 93	Margin on New Products, 129
total cost per unit, 96–99	Number of New Products, 129
Variations on Trial, 128	purpose of, 116–117
Venn diagrams, Net Reach, 316–317	related metrics/concepts, 128–129
Video Interactions, 351	Repeat Volume, 121–122
Visitors, 343, 360	Revenue from New Products, 129
cautions, 363	spreadsheets, 123–124
Clickstreams, 361	Target Market Fit, 129
complications, 363–364	Total Volume, 122–124
construction, 363	Trial Rate, 117
Conversion Rate, 363	Trial Volume, 118
cookies, 364	Variations on Trial, 128
data sources, 363–364	
defined, 363	VSLY&R, BrandAsset® Valuator, 143–144
purpose of, 360–363	
Visits, 343, 360	W
cautions, 363–364	
Clickstreams, 361	Wal-Mart, market share, 19
complications, 363–364	Warm Leads, Sales Pipeline, 202
construction, 363	Watt, James H.
Conversion Rate, 363	concepts, 4
cookies, 364	"source credibility," 4
data sources, 363–364	Wear-in frequency, 323
defined, 363	Wear-out frequency, 323
purpose of, 360–363	web resources, MASB, 10-11
VMLY&R, 142	websites
Voice, Share of, 306, 325	Abandonment Rate, 344, 360
cautions, 326–327	cautions, 363
complications, 326–327	Clickstreams, 361
construction, 326	complications, 363–364
data sources, 326–327	construction, 363
defined, 326	Conversion Rate, 363
purpose of, 326	cookies, 364
Volume Projections, 114	data sources, 363–364
cautions, 124-128	defined, 363
Company Profit from New Products, 129	purpose of, 360–363

Bounce Rate, 344	construction, 56
cautions, 365–367	data sources, 56
complications, 365–367	purpose of, 55–56
construction, 365	Workload, 186
data sources, 365–367	balanced territories, effects of, 188-189
defined, 364, 365	buying power, 189
first-click attribution, 366–367	cautions, 190
last-click attribution, 366–367	comparing territories, 189-190
linear attribution, 366–367	complications, 190
purpose of, 365	construction, 188-190
Clickstreams, 361	data sources, 190
Conversion Rate, 363	defined, 187–188
Visitors, 343, 360	overservicing, 188
cautions, 363	under-servicing, 187–188
Clickstreams, 361	territories, 187
complications, 363–364	unbalanced territories, 188
construction, 363	workload distribution, Sales Pipeline, 201
Conversion Rate, 363	
cookies, 364	V
data sources, 363–364	X
defined, 363	x-rays, marketing metrics as
purpose of, 360–363	Big Tobacco Company scenario, 409-412
Visits, 343, 360	comparing firms on customer metrics, 405-406
cautions, 363	customer attitudes/awareness of two firms,
Clickstreams, 361	405–406
complications, 363–364	customer profitability of two firms, 405
construction, 363	grandparent's savings scenario, 403-406
Conversion Rate, 363	Prestige Luggage scenario, 407-409
cookies, 364	
data sources, 363–364	Y - Z
defined, 363	I - L
purpose of, 360–363	Year-on-Year Growth, 115
Weighted Share of Sales Allotment, 192	basis points, 134
whale curves, 168–170	Compounding Growth, Value at Future Period,
Willingness to Recommend, 23	132
construction, 50–51	construction, 130–133
data sources, 51–52	data sources, 133-134
Number of Complaints, 52	defined, 129
purpose of, 49–50	Life Cycles, 134
related metrics/concepts, 52	measuring growth, 130
Trade Satisfaction, 52	percentage points, 133
Willingness to Search, 23, 55	purpose of, 130
cautions, 56	related metrics/concepts, 134
complications, 56	